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                 UNITED STATES DISTRICT COURT
                  SOUTHERN DISTRICT OF TEXAS
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                       McALLEN DIVISION
     ROBERT "BOBBY" FLORES,
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             Plaintiff,
                                Ş
                                S
 5
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                                     Civil Action No.
          vs.
                                §
                                     7:18-CV-00027
     HONEYWELL SAFETY PRODUCTS,
 6
                                8
     USA, INC.,
                                8
 7
                                §
              Defendant.
     8
 9
                    VIDEOTAPED DEPOSITION
10
                       THERESA SCHULTZ
11
                        MARCH 4, 2020
     12
13
          VIDEOTAPED DEPOSITION OF THERESA SCHULTZ,
14
     produced as a witness at the instance of the
15
     Plaintiff and duly sworn, was taken in the
     above-styled and numbered cause on March 4, 2020,
16
17
     from 2:00 p.m. to 6:38 p.m., before Kara Dickinson,
18
     reported by computerized stenotype machine at the
19
     offices of Royston, Rayzor, Vickery & Williams, LLP,
20
     8200 West IH-10, Suite 320, San Antonio, Texas 78230,
21
     under Rules 30(b)(2)(A) of the Federal Rules of Civil
22
     Procedure and the provisions stated on the record or
2.3
     attached hereto.
24
25
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_	Mar	CII	J T ,	2020 2	10 5
1	P APPEARANCES	age 2	1	EXHIBITS	Page 4
2	AFFEARANCES		2	PARIBIIS	Doc:-
3	FOR THE PLAINTIFF				Page
4	LAW OFFICE OF EZEQUIEL REYNA, JR., L.L.P.		3	Exhibit 19 - Bill Murphy Article	75
5	Edward L. Ciccone 702 W. Expressway 83, Suite 100		4	Exhibit 20 - 2009 NIOSH Alert	81
	Weslaco, Texas 78596		5	Exhibit 21 - January 2010 NIOSH publication	86
6	956-968-9556		6	Exhibit 22 - Position Paper on Recreational	
	elciccone@gmail.com		7	Firearms Noise	101
7 8			8	Exhibit 23A - Abstract	103
9	FOR THE DEFENDANT		9	Exhibit 23B - ISHN Article	154
10	ROYSTON, RAYZOR, VICKERY & WILLIAMS, L.L.P.		10	Exhibit 24 - January 2014 Scott Lake Article	184
11	Javier Gonzalez 55 Cove Circle		11	Exhibit 25 - (Exhibit No. skipped)	
111	P.O. Box 3509		12	Exhibit 26 - Hearing Conservation Manual	
12	956-542-4377		13	5th Edition	204
	javier.gonzalez@roystonlaw.com		14	Exhibit 27 - List of Exhibits	204
13	MIDAMBA CAMBUDGUV CLONE GVLADIN VEDVENI	OTT	15	EMILDIC 27 EIGC OI EMILDICS	201
14	MIRANDA, SAMBURSKY, SLONE, SKLARIN, VERVENI L.L.P.	OIID,			
15	Neil L. Sambursky		16		
	240 Mineola Boulevard		17		
16	Mineola, NY 11501 (516) 408-5408		18	Reporter's Certification	209
17	nsambursky@pmtlawfirm.com		19		
18	• •		20		
19			21		
20	ALSO PRESENT: Videographer		22		
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23			24		
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1	P EXAMINATION INDEX	age 3		DDOCEEDINGS	Page 5
2	THERESA SCHULTZ	Page	1	PROCEEDINGS	l_4_ !_
3	Examination by Mr. Ciccone	4	2	THE VIDEOGRAPHER: Today's o	
4		206	3	March 4th, 2020. The time now is 2:10 p.m.	we are
5	Examination by Mr. Gonzalez Examination by Mr. Ciccone	206	4	on the record.	
	•	200	5	THERESA SCHULTZ,	
6	EXHIBITS		6	having been first duly sworn, testified as follo	ows:
7	Exhibit 1 - Howard Leight Logo	19	7	EXAMINATION	
8	Exhibit 2 - Chapter 13 Hearing Conservation Manu	al 45	8	Q. (BY MR. CICCONE) Ma'am, would y	ou state
9	Exhibit 3 - Video of Ms. Schultz	51	9	your name for us, please.	
10	Exhibit 4 - Video of Ms. Schultz	59	10	A. My name is Theresa Wise Schultz.	
11	Exhibit 5 - 2010 Sperian PowerPoint	89	11	Q. And I understand that you're a retire	d Air
12	Exhibit 6 - 2013 Ms. Schultz Paper	96	12	Force officer?	
13	Exhibit 7 - USA Shooting Team Webpage	109	13	A. Yes, I am.	
14	Exhibit 8 - National Shooting Sports Foundation		14	Q. And during this deposition, may I sho	ow you
15	Safety Video	116	15	the respect that I think that you've earned by	•
16	Exhibit 9 - Photos of Box of Shooters Earplugs	118	16	addressing you by your rank?	•
17		123	17	A. You may. I haven't had that in a whi	le. so
	Exhibit 10 - Photos of Box of MAXX Earplugs		1 1 1	roamaji mavontnaa matin a wiii	,
18	Exhibit 10 - Photos of Box of MAXX Earplugs Exhibit 11 - Photos of Tub of Shooters Earplugs	124	12	Leniov it	
	Exhibit 11 - Photos of Tub of Shooters Earplugs	124	18	I enjoy it.	ı from
19	Exhibit 11 - Photos of Tub of Shooters Earplugs Exhibit 12 - Michael & Associates 2003 Report	124 136	19	Q. Very well, Colonel. Colonel, are you	ı from
19 20	Exhibit 11 - Photos of Tub of Shooters Earplugs Exhibit 12 - Michael & Associates 2003 Report Exhibit 13 - 2015 Ms. Schultz ISHN Paper	124	19 20	Q. Very well, Colonel. Colonel, are you Texas?	ı from
19 20 21	Exhibit 11 - Photos of Tub of Shooters Earplugs Exhibit 12 - Michael & Associates 2003 Report Exhibit 13 - 2015 Ms. Schultz ISHN Paper Exhibit 14 - (Video not played - not attached)	124 136 146	19 20 21	Q. Very well, Colonel. Colonel, are you Texas? A. I am.	
19 20 21 22	Exhibit 11 - Photos of Tub of Shooters Earplugs Exhibit 12 - Michael & Associates 2003 Report Exhibit 13 - 2015 Ms. Schultz ISHN Paper Exhibit 14 - (Video not played - not attached) Exhibit 15 - Proposed EPA Rule Change	124 136 146	19 20 21 22	Q. Very well, Colonel. Colonel, are you Texas? A. I am. Q. And tell me where in Texas that you	
19 20 21 22 23	Exhibit 11 - Photos of Tub of Shooters Earplugs Exhibit 12 - Michael & Associates 2003 Report Exhibit 13 - 2015 Ms. Schultz ISHN Paper Exhibit 14 - (Video not played - not attached) Exhibit 15 - Proposed EPA Rule Change Exhibit 16 - EPA Webpage	124 136 146 155 169	19 20 21 22 23	Q. Very well, Colonel. Colonel, are you Texas? A. I am. Q. And tell me where in Texas that you born?	
19 20 21 22 23 24	Exhibit 11 - Photos of Tub of Shooters Earplugs Exhibit 12 - Michael & Associates 2003 Report Exhibit 13 - 2015 Ms. Schultz ISHN Paper Exhibit 14 - (Video not played - not attached) Exhibit 15 - Proposed EPA Rule Change Exhibit 16 - EPA Webpage Exhibit 17 - 2018 Affidavit and Report	124 136 146 155 169 174	19 20 21 22 23 24	Q. Very well, Colonel. Colonel, are you Texas? A. I am. Q. And tell me where in Texas that you born? A. I was born in Jacinto City, Texas.	were
19 20 21 22 23	Exhibit 11 - Photos of Tub of Shooters Earplugs Exhibit 12 - Michael & Associates 2003 Report Exhibit 13 - 2015 Ms. Schultz ISHN Paper Exhibit 14 - (Video not played - not attached) Exhibit 15 - Proposed EPA Rule Change Exhibit 16 - EPA Webpage	124 136 146 155 169	19 20 21 22 23	Q. Very well, Colonel. Colonel, are you Texas? A. I am. Q. And tell me where in Texas that you born?	were

Page 6

Theresa Schultz March 04, 2020

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Page 8

A. I did.

1

2 Q. And tell me what year you graduated?

A. 1976. 3

4 Q. And do you have a bachelor in science in

5 communications disorders from the University of Texas

6 at Austin?

7 A. I do.

8 Q. And when did you get that BS?

9 A. 1981.

10 Q. And do you have also have a master's in

audiology from the University of Texas? 11

12 A. 1983, yes.

13 Q. Okay. And then you got a PhD in hearing

14 science from Ohio State?

15 A. The Ohio State University.

Q. The Ohio State University. And tell me 16

17 when you got your PhD.

A. 1995. 18

19 Q. What was the title of your dissertation?

20 A. Oh, boy, title, title?

21 Q. What was the dissertation about?

22 A. It was basically looking at standard

23 threshold shift definitions and comparing them in

24 military hearing conservation data analytics.

25 Q. And, Colonel, when you wrote that 1 during that time.

A. Fort Riley, Kansas.

3 Q. And tell me what your responsibilities were 4

during the three years that you were in the Army?

5 A. As am audiologist in the Army, we split our 6 time between clinical work doing diagnostic hearing

7 evaluations and hearing aid fittings and hearing

8 conservation work preventing noise induced hearing

9 loss in the troops that we're responsible for.

Q. And you then went into the Air Force?

11

Q. And you served in the Air Force for 18

13 years?

14 A. That's correct.

Q. And you retired from the Air Force in 2004?

16 A. That's correct.

17 Q. And, Colonel, while you were in the Air

Force were you twice recognized as outstanding

19 audiologist of the year?

A. I was.

21 Q. And how many audiologists does the Air

22 Force have?

A. It changes over time, anywhere between 30

24 and 45.

Q. And so out of those 30 or 45 audiologists,

Page 7

dissertation, were you already in the military?

A. I was.

3 Q. And did the Army, I think you were in the

Army initially, did the Army send you to get that

dissertation or pay for your education in that 5

6 regard?

2

8

11

7 A. I was in the Air Force at the time, and

they did pay for my education.

9 Q. Colonel, tell me what got you interested in

10 audiology.

A. I was going to school at the University of

12 Texas as a music major and realized that music was

not for me. And so my sister was actually working at 13

14 The School for the Deaf in Austin and I became

interested in sign language. So I took a basic 15

16 communications disorders class where they talked

17 about deaf education and speech pathology and

18 audiology. And when they talked about audiology, it

sort of sparked some interest, and went into it from 19

20 there.

21 Q. And I understand that you began your career

22 in hearing conservation as it an audiologist for the

23 U.S. Army?

24 A. I did. I was in the Army for three years.

25 Q. Okay. And tell me where you were stationed

the Air Force recognized you as the No. 1 audiologist

2 two years in a row?

A. Not in a row.

4 Q. And tell me did you receive an award that's

known as the Elizabeth Guild Award for Contributions 5

6 to Military Hearing Conservation?

7 A. I did.

Q. And what year did you receive that award?

9 A. It's on my wall. I should know that. As a

matter of fact, I really don't remember the year.

Q. Well, certainly before 2004?

A. It was.

Q. Okay. Now, Colonel, you used a term while 13

14 you were discussing your Army career, and that term

15 was "noise induced hearing loss". Okay. And I want

16 you to define that term for us in terms that,

17 perhaps, laypeople like us can understand. Can you define it for us, please.

18 19

A. Define noise induced hearing loss. It's a 20 hearing loss that is caused due to hazardous levels of noise. 21

22 Q. Okay. And does noise induced hearing loss,

what part of the hearing organ does this damage

affect?

A. Generally, it affects structures in the

23

24

25

	march o	•	2020 10 00 13
1	Page 10 inner ear.	1	Page 12 service and filed for compensation.
2		2	Q. And you do you have any idea approximately
	Q. And this would be the cochlea?		
3	A. That's correct.	3	how much money the government pays to veterans who
4	Q. And the little hairs in side the cochlea?	4	have experienced noise induced hearing loss as a
5	A. Little cells with hairs on top of them,	5	result of their military experience each year?
6	yes, sir.	6	MR. GONZALEZ: Object to the form.
7	Q. And these can be permanently damaged by	7	THE WITNESS: I don't know the number
8	excessive noise?	8	off the top of my head.
9	A. They can be.	9	Q. (BY MR. CICCONE) Is it in the hundreds of
10	Q. Okay. And, Colonel, with respect to	10	millions?
11	military personnel, is noise induced hearing loss an	11	MR. GONZALEZ: Object to form.
12	occupational hazard to those personnel?	12	THE WITNESS: I would say to find that
13	A. I'm sorry. Say the first part of the	13	information I'd need to look it up.
14	sentence again.	14	Q. (BY MR. CICCONE) Very well. Now, Colonel,
15	Q. With respect to Army personnel, military	15	after you retired from the Air Force in 2004, did you
16	personnel in general, is noise induced hearing loss	16	work for a company called Sonomax?
17	an occupational hazard for those people?	17	A. I did.
18	A. It is.	18	Q. Okay. And tell me what kind of a business
19	Q. And in terms of the scale of the problem,	19	Sonomax is.
20	can you describe that for us, please.	20	A. It was a startup company that had a fairly
21	MR. GONZALEZ: Objection form.	21	novel custom hearing protector that could be filtered
22	Q. (BY MR. CICCONE) Is it a is it a You	22	to provide a target amount of hearing protection.
23	can answer the question if you understood it.	23	Q. Where is that company located?
24	A. Yes. Say it again.	24	A. Montreal, Canada.
25	Q. Is it a problem that you consider to be a	25	Q. And were you the vice president of
-0	a. To it a problem that you conclude to be a		
1	Page 11	1	Page 13
1 2	serious problem?	1	professional operations?
2	serious problem? MR. GONZALEZ: Object to form.	2	professional operations? A. Yes.
2 3	serious problem? MR. GONZALEZ: Object to form. You can still answer.	2	professional operations? A. Yes. Q. And what were your responsibilities with
2 3 4	serious problem? MR. GONZALEZ: Object to form. You can still answer. THE WITNESS: I don't know that my	2 3 4	professional operations? A. Yes. Q. And what were your responsibilities with that company?
2 3 4 5	serious problem? MR. GONZALEZ: Object to form. You can still answer. THE WITNESS: I don't know that my opinion on it is all that important. But, yes,	2 3 4 5	professional operations? A. Yes. Q. And what were your responsibilities with that company? A. To recruit and train people to be able to
2 3 4 5 6	serious problem? MR. GONZALEZ: Object to form. You can still answer. THE WITNESS: I don't know that my opinion on it is all that important. But, yes, people do get noise induced hearing loss in the	2 3 4 5 6	professional operations? A. Yes. Q. And what were your responsibilities with that company? A. To recruit and train people to be able to make these custom hearing protectors.
2 3 4 5 6 7	serious problem? MR. GONZALEZ: Object to form. You can still answer. THE WITNESS: I don't know that my opinion on it is all that important. But, yes, people do get noise induced hearing loss in the military, and it is recognized.	2 3 4 5 6 7	professional operations? A. Yes. Q. And what were your responsibilities with that company? A. To recruit and train people to be able to make these custom hearing protectors. Q. And you worked there in Montreal, or did
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2 3 4 5 6 7 8	serious problem? MR. GONZALEZ: Object to form. You can still answer. THE WITNESS: I don't know that my opinion on it is all that important. But, yes, people do get noise induced hearing loss in the military, and it is recognized. Q. (BY MR. CICCONE) Does it affect a significant number of people in your opinion?	2 3 4 5 6 7 8 9	A. Yes. Q. And what were your responsibilities with that company? A. To recruit and train people to be able to make these custom hearing protectors. Q. And you worked there in Montreal, or did you work somewhere else? A. I worked in the United States.
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2 3 4 5 6 7 8 9 10 11 12 13	serious problem? MR. GONZALEZ: Object to form. You can still answer. THE WITNESS: I don't know that my opinion on it is all that important. But, yes, people do get noise induced hearing loss in the military, and it is recognized. Q. (BY MR. CICCONE) Does it affect a significant number of people in your opinion? MR. GONZALEZ: Object to form. THE WITNESS: Again, define "significant". Q. (BY MR. CICCONE) Well, in terms of percentage, do you have any idea of the percentage of	2 3 4 5 6 7 8 9 10 11 12 13 14	professional operations? A. Yes. Q. And what were your responsibilities with that company? A. To recruit and train people to be able to make these custom hearing protectors. Q. And you worked there in Montreal, or did you work somewhere else? A. I worked in the United States. Q. And how long did you work for Sonomax? A. About eight months. Q. Okay. And after Sonomax, did you go to work for NIOSH? A. Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	serious problem? MR. GONZALEZ: Object to form. You can still answer. THE WITNESS: I don't know that my opinion on it is all that important. But, yes, people do get noise induced hearing loss in the military, and it is recognized. Q. (BY MR. CICCONE) Does it affect a significant number of people in your opinion? MR. GONZALEZ: Object to form. THE WITNESS: Again, define "significant". Q. (BY MR. CICCONE) Well, in terms of percentage, do you have any idea of the percentage of military people who experience a noise induced hearing loss in connection with their military	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	professional operations? A. Yes. Q. And what were your responsibilities with that company? A. To recruit and train people to be able to make these custom hearing protectors. Q. And you worked there in Montreal, or did you work somewhere else? A. I worked in the United States. Q. And how long did you work for Sonomax? A. About eight months. Q. Okay. And after Sonomax, did you go to work for NIOSH? A. Yes. Q. Okay. And have I pronounced that correctly, NIOSH?
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		March U	4,	2020 14 to 17
	1	Page 14 NIOSH does research and makes recommendations about	1	while you worked for Sperian; is that correct?
	2	safety practices, and of course OSHA is under a	2	A. That is correct.
	3	different part of the federal government, but they	3	Q. And so did you then become a Honeywell
	4	are more the regulatory branch.	4	employee?
	5	Q. Okay. And tell me whether or not NIOSH	5	A. Yes, sir.
	6	provides any sort of leadership to prevent workplace	6	Q. Even though you still did the same thing
	7	illnesses and injuries?	7	that, I guess, you were doing before?
	8	A. Yes, they do. That is their mission.	8	A. Correct.
	9	Q. Right. And at NIOSH were you a team leader	9	Q. Okay. I want to talk to you very briefly
	10	for hearing loss prevention?	10	about this gentleman Howard Leight. Do you know who
	11	A. Yes, sir, I was.	11	Howard Leight is?
	12	Q. And, Colonel, tell me what your	12	A. Yes, I have met him.
	13		13	
	14	responsibilities were as a team leader at NIOSH. A. The NIOSH lab where I worked focused on	l	Q. Okay. And Howard Leight, he's an inventor,
			14	a businessman in California. Do you know?
	15	mining safety. And so we did research and made best	15	A. Yes.
	16	practice recommendations for hearing loss prevention	16	Q. Okay. And do you know approximately how
	17	in the mining industry.	17	old he is? If he's even still alive?
	18	Q. And where was your office?	18	A. He is still alive, as far as I know, and I
	19	A. Ins Pittsburgh, Pennsylvania.	19	would guess around 70ish.
	20	Q. And did you travel around or did you spend	20	Q. Okay. I think he may be older than that,
	21	most of your time there in Pennsylvania?	21	but I'll trust your memory.
	22	A. Most of the time there.	22	Did you ever meet Howard Leight's
	23	Q. Okay. So you would have joined NIOSH,	23	father, whose name was Charles Leight?
	24	what, about 2005, 2006?	24	A. No, I never met him.
	25	A. Yes, sir.	25	Q. Okay. He died, I think, in 2007 when he
f		Page 15		Page 17
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1	Q. (BY MR. CICCONE) Do you know what they did?	1	Page 20 protectors.
2	What kind of inventions they were?	2	Q. How many different models of earplugs does
3	MR. GONZALEZ: Object to form.	3	Honeywell make, if you know?
4	THE WITNESS: They were hearing	4	A. I don't know the number off the top of my
5	protectors.	5	head, but
6	Q. (BY MR. CICCONE) Do you know if they	6	MR. GONZALEZ: Object to form.
7	patented hearing like earplugs?	7	THE WITNESS: several.
8	A. Earplugs.	8	Q. (BY MR. CICCONE) Like more than five?
9	Q. And other devices as well, as far as you	9	A. More than five.
10	know?	10	Q. More than ten?
11	A. Banded hearing protection, yes.	11	A. You want me to make a rough order of
12	Q. Okay. And when you were with Sperian,	12	magnitude guess?
13	where was your office?	13	Q. Well, just
14	A. I lived in Pittsburgh most of the time that	14	MR. GONZALEZ: Objection to form.
15	I worked for them and then moved to Texas.	15	Q. (BY MR. CICCONE) give me your best
16	Q. At any point did you ever live in	16	estimate, Colonel.
17	California?	17	(Reporter clarification)
18	A. I did not.	18	Q. (BY MR. CICCONE) Colonel, give me your best
19	Q. Okay. So you worked, sort of, remotely for	19	estimate of the number of models of hearing
20	them if their office was there in California?	20	earplugs earplugs that Honeywell manufactures and
21	A. Yes, sir.	21	markets?
22	MR. GONZALEZ: Let him finish his	22	MR. GONZALEZ: Object to form.
23	question, then he's going to let you finish your	23	THE WITNESS: So models I would say,
24	response. Okay?	24	20.
25	THE WITNESS: Okay.	25	Q. (BY MR. CICCONE) And they also manufacture
-			
1	Page 19 MR. GONZALEZ: You caught him a little	1	Page 21 and market what we call earmuffs?
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1 2 3	MR. GONZALEZ: You caught him a little bit on his question.		and market what we call earmuffs? A. Yes.
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22 to 25

	March U	4,	2020 22 to 25
4	Page 22	1	Page 24
1	number of different subsidiaries?	1	A. That was not within my job description.Q. Do you know who the people at Honeywell are
2	MR. GONZALEZ: Object to form.	3	who are responsible for the product labeling with
3 4	THE WITNESS: I'm not sure I'm the right source for their business model. But yes, they	4	respect to hearing protectors?
	do have divisions, yes.	5	A. Yes, sir.
5	Q. (BY MR. CICCONE) Right. And I'm interested	6	Q. Can you name any names?
	in knowing whether you worked for the division that's	7	A. It's changed over time.
7 8	known as Honeywell Safety Products?	8	Q. Well, say, while you were there.
9	A. It was known by that name at one point in	9	A. It changed while I was there.
10	time. The name changes as time changes.	10	Q. Say, at the end of your tenure at
11	Q. Right. And tell me, does that division,	11	Honeywell, can you name any of the people responsible
12	did it sell personnel protection equipment, including	12	for labeling of the hearing protecting products?
13	things like fall protection devices, eye protection,	13	A. I would say the global product manager for
14	respirators, and hearing protectors?	14	hearing was Charlotte Loomis.
15	A. Yes, sir.	15	Q. And where was Charlotte located?
16	Q. Okay. But you just worked with respect to	16	A. In San Diego.
17	the hearing protection facet of that business, am I	17	Q. Did you ever meet her face-to-face?
18	right or wrong?	18	A. Yes.
19	A. Yes, sir. For eight of eight and a half	19	Q. Did you meet her face-to-face more than
20	of the eleven years that I worked there, I only	20	once?
21	worked for the hearing protection part.	21	A. Yes.
22	Q. And, of course, that was your background,	22	Q. Did you ever work with her?
23	that was your specialty?	23	A. Yes.
24	A. Yes, sir.	24	Q. And work did you do with her?
25	Q. Right. And tell me what your job	25	A. She would review documents that we were
	Page 23		Page 25
1	description was during this 11 years that you worked	1	working on together. We were a hearing conservation
2	for Honeywell.	2	team, so we several of us worked together to
3	A. My job description for the majority of that	3	review things that we wrote online, those sorts of
4	time was hearing conservation manager, and so the	4	things.
5	job description basically was to educate our	5	Q. What specific information would you provide
6	customers about hearing loss prevention, hearing	6	Charlotte to review?
7	conservation, and best practices in those aspects.	7	A. Often if we were writing an article for a
8	Q. Did you do this by yourself, or were there	8	trade journal, Charlotte would be one of the people
9	other people at Honeywell that worked with you to do	9	who reviewed it, yes.
10	that?	10	Q. And what purpose would it serve her to
11	A. We had a team of audiologists and marketing	11	review your work?
12	managers and other folks that worked on that, yes,	12	A. Another set of eyes.
13	Sir.	13	Q. Colonel, when did you leave Honeywell?
14	Q. And, Colonel, did you work with anybody at	14	A. In May of 2019.
15	Honeywell was marketing for begring protection?	15	Q. Can I ask you the reason that you left?
16	Honeywell was marketing for hearing protection?	16	A. You can.
17	A. No, that was not within my scope.	17	Q. Why did you leave?
19	Q. Did you work with anybody with respect to testing the hearing protectors that company was	18 19	A. There were several reasons. The primary reason was that Honeywell is a larger entity, had a
20	marketing during the time that you worked there?	20	more strict work from home policy, and that just
21	A. That was not my job description either.	21	didn't meet my ongoing needs.
22	Q. Did you did you work with anyone at	22	Q. And when you left in 2009, were you living
23	Honeywell with respect to the labeling of the	23	in San Antonio or somewhere else?
24	products that Honeywell was marketing during the	24	A. 2019.
24	products that Honeywell was marketing during the	24	7. 2013.

25

Q. 2019. I'm sorry.

25 period of time that you worked there?

26 to 29

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1	A. No. I lived in College Station, Texas.	1	Page 28 Q. Voluntarily or involuntarily?
2	Q. And so there strict working from home	2	A. Voluntarily.
3	policy was at odds with what your priorities were at	3	Q. Okay. And you've been a member of that
4	the time?	4	organization for more than 30 years, have you not?
5	A. Correct.	5	A. Yes, sir.
6	Q. Okay. What are some of the other reasons	6	Q. And tell me, Colonel, what function does
7	that you left?	7	that organization serve.
8	MR. GONZALEZ: Object to form.	8	MR. GONZALEZ: Object to form.
9	THE WITNESS: One reason was I had	9	Q. (BY MR. CICCONE) What does the organization
10	always wanted to work at the Department of Defense	10	do?
11	Hearing Center of Excellence, and a position became	11	A. Their mission is to prevent hearing loss
12	available that I wanted to apply for.	12	from noise and other factors throughout all aspects
13	Q. (BY MR. CICCONE) And, Colonel, tell me	13	of society.
14	where you're working now.	14	Q. Okay. Does where is it its office?
15	A. At the DOD Hearing Center of Excellence.	15	A. In Westminster, Colorado, a suburb of
16	Q. That's here in San Antonio?	16	Denver.
17	A. Yes, sir.	17	Q. What are your responsibilities as president
18	Q. Now, tell me what your job responsibilities	18	of the NHCA?
19	are.	19	A. NHCA.
20	A. I'm the branch chief of prevention and	20	Q. What are your responsibilities?
21	surveillance branch within the Hearing Center of	21	A. To serve as the leader at our meetings, to
22	Excellence.	22	basically keep the association healthy and running.
23	Q. And what do you do on a day-to-day basis?	23	Q. Is it a large organization in terms of
24	A. I manage a team that does research and	24	Let me rephrase that.
25	educational activities and outreach to teach people	25	How many members does that association
	Page 27		Page 29
1	about hearing loss prevention and hearing	1	have?
2	conservation.	2	A. Our current membership is probably in the
3	Q. When you say "people", do you mean military	3	500 to 600 range.
4	people or civilians as well?	4	Q. And the people that are members, are they
5	A. Mostly military members, that's our focus.	5	audiologists people that are experience in hearing
6	Q. And on a day-to-day basis, do you go and	6	conservation? What kind of people belong to that
7	speak to groups of people? Do you write papers?	7	organization?
8	Tell me what you do on a day-to-day basis.	8	A. Yes, sir, audiologists, industrial
9	A. In my branch chief position, I primarily	9	hygienists, physicians, nurses, noise control
10			
	manage people who write papers, and go speak to	10	engineers, anyone concerned with noise induced
	people.	11	hearing loss.
12	people. Q. Do you travel around and give speeches or	11 12	hearing loss. Q. And, Colonel, I also understand you were
12 13	people. Q. Do you travel around and give speeches or seminars, or does most of your work happen here in	11 12 13	hearing loss. Q. And, Colonel, I also understand you were the chair of the Council for Accreditation and
12 13 14	people. Q. Do you travel around and give speeches or seminars, or does most of your work happen here in San Antonio?	11 12 13 14	hearing loss. Q. And, Colonel, I also understand you were the chair of the Council for Accreditation and Occupational Hearing Conservation. It's kind of a
12 13 14 15	people. Q. Do you travel around and give speeches or seminars, or does most of your work happen here in San Antonio? A. Most of my work is here in San Antonio. I	11 12 13 14 15	hearing loss. Q. And, Colonel, I also understand you were the chair of the Council for Accreditation and Occupational Hearing Conservation. It's kind of a mouthful, but is that in fact what you were?
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12 13 14 15 16 17 18 19 20 21 22	people. Q. Do you travel around and give speeches or seminars, or does most of your work happen here in San Antonio? A. Most of my work is here in San Antonio. I do travel occasionally. Q. I want to talk to you a little bit about some professional associations that I know that you've been a member of, and perhaps you're still a member of. Colonel, am I correct that you were the president of National Hearing Conservation Association in 2007-2008?	11 12 13 14 15 16 17 18 19 20 21 22	hearing loss. Q. And, Colonel, I also understand you were the chair of the Council for Accreditation and Occupational Hearing Conservation. It's kind of a mouthful, but is that in fact what you were? A. Yes, sir. Q. And tell me approximately when you were the chair of that organization. A. Again, years. I want to say 2009, 2010, somewhere around there. Q. And tell me what that organization does. A. CAOHC is that acronym that we used for
12 13 14 15 16 17 18 19 20 21	people. Q. Do you travel around and give speeches or seminars, or does most of your work happen here in San Antonio? A. Most of my work is here in San Antonio. I do travel occasionally. Q. I want to talk to you a little bit about some professional associations that I know that you've been a member of, and perhaps you're still a member of. Colonel, am I correct that you were the president of National Hearing Conservation	11 12 13 14 15 16 17 18 19 20 21	hearing loss. Q. And, Colonel, I also understand you were the chair of the Council for Accreditation and Occupational Hearing Conservation. It's kind of a mouthful, but is that in fact what you were? A. Yes, sir. Q. And tell me approximately when you were the chair of that organization. A. Again, years. I want to say 2009, 2010, somewhere around there. Q. And tell me what that organization does.

25 directors, who then teach courses to hearing

25 Association again this month, actually, last month.

30 to 33

March U	' '	2020 30 to 33
Page 30 technicians and those technicians are the people who	1	A. Yes, sir.
		Q. And what does that organization do?
		A. It's the organization of Air Force
	l .	audiologists to promote what Air Force audiologists
_		do within the Air Force.
-		Q. And in addition to these articles that we
	-	discussed in this Hearing Conservation Manual,
		Colonel, is it true that you published a number of
••	l .	other articles on hearing conservation?
•	l	A. Yes, sir.
•		Q. And do you have any idea of the number of
-		articles that you've published over the years on
•		hearing conservation?
		A. No, sir, I've never counted.
		Q. Would it be more than 10?
•		A. Yes, sir.
•		Q. Would it be more than 20?
•		A. Yes, sir.
		Q. Would it be more than 30?
		A. I don't know.
-		Q. Okay. In addition to publishing articles,
		Colonel, have you spoken at conferences around the
_		country, perhaps even internationally, on hearing
		conservation?
		A. Yes, sir.
		D 22
Q. Right. And that's chapter 13 and 14 of	1	Q. Have you spoken internationally?
this manual?	2	A. In Canada.
A Little Land Control of the Control		
A. I think so, yes, sir.	3	Q. And in addition, have you traveled around
A. I think so, yes, sir.Q. And in addition to what we discussed,	3 4	Q. And in addition, have you traveled around the country giving seminars on hearing conservation?
	l .	
Q. And in addition to what we discussed,	4	the country giving seminars on hearing conservation?
Q. And in addition to what we discussed, Colonel, are you a fellow in the American Academy of	4 5	the country giving seminars on hearing conservation? A. Yes, sir.
Q. And in addition to what we discussed, Colonel, are you a fellow in the American Academy of Audiology?	4 5 6	the country giving seminars on hearing conservation? A. Yes, sir. Q. Do you still do that?
Q. And in addition to what we discussed,Colonel, are you a fellow in the American Academy of Audiology?A. Yes, sir.	4 5 6 7	the country giving seminars on hearing conservation? A. Yes, sir. Q. Do you still do that? A. No, sir.
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	technicians and those technicians are the people who do audiometric testing in industry, in the military, in occupational hearing conservation programs. Q. And, Colonel, does that organization publish The Hearing Conservation Manual? A. It does. Q. And I have the 2017 edition, which apparently the 5th edition. And am I correct that you were one of the editors of this fantastic manual? A. Thank you. I did have the honor of coediting that manual, yes? Q. And your co-editor was Thomas Hutchinson? A. Yes, sir. Q. Tell me a little bit about him. Does he have credentials that are somewhat similar to yours in terms of experience, education? A. He does. He's a retired Navy audiologist. Q. And, Colonel, approximately how long did it take to put this 5th edition of this Hearing Conservation Manual together? A. Too long, about four years. Q. And in addition to co-editing this 5th edition, did you actually publish or write two of the articles that are included in it? A. Yes. I co-wrote two chapters.	technicians and those technicians are the people who do audiometric testing in industry, in the military, in occupational hearing conservation programs. Q. And, Colonel, does that organization publish The Hearing Conservation Manual? A. It does. Q. And I have the 2017 edition, which apparently the 5th edition. And am I correct that you were one of the editors of this fantastic manual? A. Thank you. I did have the honor of coediting that manual, yes? Q. And your co-editor was Thomas Hutchinson? A. Yes, sir. Q. Tell me a little bit about him. Does he have credentials that are somewhat similar to yours in terms of experience, education? A. He does. He's a retired Navy audiologist. Q. And, Colonel, approximately how long did it take to put this 5th edition of this Hearing Conservation Manual together? A. Too long, about four years. Q. And in addition to co-editing this 5th edition, did you actually publish or write two of the articles that are included in it? A. Yes. I co-wrote two chapters.

25 Organization?

25

A. The EPA's definition?

34 to 37

	March 0	· ,	2020 34 to 37
1	Page 34 Q. Yes, it's in a regulation. Tell me how you	1	Page 36 know, air guns to military weaponry? Do we need
2	would define excessive noise.	2	to it very much depends.
3	MR. GONZALEZ: Object, form.	3	Q. (BY MR. CICCONE) How about gunpowder-type
4	THE WITNESS: Various regulations	4	firearms?
5	define excessive noise at different thresholds. So	5	MR. GONZALEZ: Object to form.
١.			-
6	it depends on the jurisdiction, on how many people	6	THE WITNESS: I'm not sure what that
7	you want to protect out of the population. So it	7	means.
8	depends I guess is the answer.	8	Q. (BY MR. CICCONE) Have you written any
9	Q. Well, give us some examples of some of the	9	articles, Colonel, that survey the decibel range
10	regulations of some of the definitions of excessive	10	impulsive noise that various firearms can produce?
11	noise that you're familiar with?	11	A. I have written an article that summarizes
12	MR. GONZALEZ: Object to form.	12	some research that other researchers did looking at
13	THE WITNESS: The Occupational Safety	13	impulsive noise and different ranges for recreational
14	and Health Administration, OSHA, has a definition of	14	firearms.
15	hazardous noise being above 90 dBA for 8-hours a day.	15	 Q. Okay. And with respect to recreational
16	Q. (BY MR. CICCONE) Okay. What does dBA mean,	16	firearms, what was the range that you observed that
17	doing business as?	17	those firearms can produce?
18	A. No, sir. Decibels A-weighted.	18	 A. For that particular range of recreational
19	Q. That's measure of, what, sound pressure	19	firearms, generally 120 decibel peak to 170-ish
20	level?	20	decibel peak.
21	A. Yes, sir.	21	Q. And, Colonel, what is the decibel level at
22	Q. Okay. And I don't want to get too	22	which hearing can become potentially damaged?
23	technical or else we'll lose people. But you're	23	MR. GONZALEZ: Object to form.
24	saying that OSHA defines excessive noise as over 90	24	THE WITNESS: It's a very individual
25	dBA over a period of how long?	25	difference. Some people are more tolerant to noise
	Page 35		Page 37
1	A. Eight hours.	1	than others.
'			
2	Q. And, Colonel, is there a difference between	2	Q. (BY MR. CICCONE) Give me the average.
	•	2 3	Q. (BY MR. CICCONE) Give me the average. MR. GONZALEZ: Objection form.
2	Q. And, Colonel, is there a difference between	1	•
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A. Yes, sir.

25 depends. Are we talking about firearms from, you 25

38 to 41

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Page 38
                                                                                                             Page 40
                                                               hearing.
1
       Q. And do you agree that a person can
                                                            1
2
   experience a noise induced hearing loss as a result
                                                            2
                                                                   Q. (BY MR. CICCONE) Has it been your
3
   of unprotected exposure to a firearm?
                                                            3
                                                                experience when addressing groups of people, perhaps
4
       A. Yes, sir.
                                                                employees or at conferences, that people do not
                                                                appreciate how vulnerable they may be to noise
5
       Q. And, Colonel, based on your experience, can
6
   a single unprotected exposure to a gunshot cause
                                                                induced hearing loss from unprotected exposure to
7
    permanent hearing damage?
                                                            7
                                                                noises?
                                                            8
8
             MR. GONZALEZ: Object to form.
                                                                         MR. GONZALEZ: Object to form.
                                                            9
9
             THE WITNESS: It depends.
                                                                         THE WITNESS: Yes. It's possible
10
       Q. (BY MR. CICCONE) Okay. Depends on what?
                                                            10
                                                                there are people that don't understand that.
                                                            11
11
       A. The distance from the firearm, the distance
                                                                   Q. (BY MR. CICCONE) Well, Colonel, if
12
    from the muzzle, the caliber, environment that you're
                                                            12
                                                                everybody understood it, then why do we need somebody
                                                            13
13
    in, lots of variables.
                                                                like you to give conferences and seminars and write
                                                                papers?
                                                            14
14
       Q. What are some of the environmental factors
                                                            15
                                                                         MR. GONZALEZ: Object to form.
15
    that will affect a person's risk of noise induced
                                                            16
                                                                   Q. (BY MR. CICCONE) Did you say "exactly"?
16
    hearing loss from a firearm's noise?
17
                                                            17
       A. Environmental factors?
                                                                I'm sorry. I didn't hear your answer.
       Q. Yes.
                                                            18
                                                                   A. No. I'm sorry. I said, well, yes. Yes.
18
19
                                                            19
                                                                I would like to think people knew, but yes, I've
       A. I'm not sure if you consider how close the
20
    person is to the firearm an environmental factor, but
                                                            20
                                                                spent my career telling people, and yes.
21
    that's one.
                                                            21
                                                                   Q. All right. And, Colonel, we talked a
                                                            22
22
       Q. Well, let's talk about specifically an
                                                                little early about there's different styles of
23
    indoor firing range. Do you believe that somebody
                                                            23
                                                                hearing protection device. I think we mentioned
24
    that's on a indoor firing range is perhaps exposed to
                                                            24
                                                                there's earplugs and there's earmuffs. And there's
    a greater risk of noise induced hearing loss from
                                                            25
                                                                also electronic hearing protectors. Are you familiar
25
                                                 Page 39
                                                                                                             Page 41
    unprotected exposure to gunfire noise than somebody
                                                                at all with those devices?
2
    who may be outside?
                                                            2
                                                                   A. Yes, sir.
3
                                                            3
                                                                   Q. Okay. And that's really going to be beyond
             MR. GONZALEZ: Object to form.
4
             (Reporter clarification)
                                                            4
                                                                the scope of the discussion, but I want to focus on
5
             THE WITNESS: In general, yes.
                                                                earmuffs and earplugs, if that's okay for the
6
       Q. (BY MR. CICCONE) Why is that, Colonel?
                                                            6
                                                                purposes of the depositions.
7
       A. Why is it that indoor firing could be more
                                                            7
                                                                   A. Yes.
8
    hazardous than outdoor?
                                                            8
                                                                   Q. And what I want to ask you specifically,
9
       Q. Yes.
                                                                Colonel, is that has it been your experience over the
10
        A. Because of the way sound waves travel.
                                                            10
                                                                years that -- that some people don't wear hearing
11
        Q. Can you articulate that a little bit more?
                                                            11
                                                                protectors correctly or properly or appropriately?
12
        A. In an outdoor environment, sound waves from
                                                            12
                                                                    A. Yes, that happens.
                                                            13
                                                                    Q. Do you believe, Colonel, that a person has
13
    a noise continue to go outward. In an enclosed
14
    indoor environment, sound waves may reverberate
                                                            14
                                                                to have some -- some basic skills to know how to wear
15
    around the walls.
                                                            15
                                                                 hearing protectors appropriately or properly or
16
        Q. Colonel, based upon your years of
                                                            16
                                                                 correctly?
17
    experience in this industry, do you believe that
                                                            17
                                                                          MR. GONZALEZ: Objection, form.
                                                            18
                                                                          THE WITNESS: I'm not sure what "basic
18
    people understand the importance of hearing
19
    conservation to the extent that you believe that they
                                                            19
                                                                 skills" means.
20
    should?
                                                            20
                                                                    Q. (BY MR. CICCONE) Well, this is a -- I think
21
                                                            21
              MR. GONZALEZ: Objection, form.
                                                                that's a word you will have used in some of the
22
              THE WITNESS: I don't know that I can
                                                            22
                                                                 materials that we're going to look at. What does
23
    speak for the general population. But I think most
                                                            23
                                                                 that word "basic skills" mean to you?
                                                            24
                                                                          MR. GONZALEZ: Object to form.
24
    people have some understanding of the dangers of
```

25

THE WITNESS: Depends on a context.

25

noise induced hearing loss -- of high noise to your

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Page 42
                                                                                                            Page 44
                                                                  Q. Or all three, perhaps?
1
       Q. (BY MR. CICCONE) Okay. Well, say, in
                                                           1
2
    general in an environment where there are laypeople
                                                           2
                                                                        (Reporter clarification)
3
    who are not audiologists like you, what basic skills
                                                           3
                                                                  A. Or all three perhaps? I don't know that
4
    do you think people would need in order to know how
                                                           4
                                                               you need all three, maybe some people do.
                                                           5
5
    to wear hearing protection appropriately?
                                                                  Q. Well, let's talk about earplugs. Do you
6
             MR. GONZALEZ: Object to form.
                                                               believe, Colonel, that someone needs at least some
7
             THE WITNESS: What basic skills would
                                                           7
                                                               level of skill to be able to properly wear earplugs?
8
    somebody need? Maybe the ability to read and follow
                                                           8
                                                                        MR. GONZALEZ: Object to form.
9
    directions if they haven't worn a hearing protection
                                                           9
                                                                        THE WITNESS: Again, skills of manual
10
    for before. The ability to use their hands to
                                                           10
                                                                dexterity and the ability to -- although I have to
                                                           11
11
    manipulate something.
                                                                say, I was going to say the ability to reach over
12
        Q. (BY MR. CICCONE) I want to -- Let me
                                                           12
                                                                your head, but I've seen people fit earplugs without
                                                                reaching over their head.
13
    briefly talk to you about earmuffs because we're
                                                           13
                                                           14
14
    going to focus most of our discussion on the
                                                                   Q. Colonel, can you list some disadvantages of
                                                           15
15
    earplugs. But I've got these Howard Leight earmuffs
                                                                disposal earplugs?
    that we used in some other depositions that I bought
                                                           16
                                                                         MR. GONZALEZ: Object to form.
16
                                                           17
17
    from Honeywell.
                                                                         THE WITNESS: Disadvantages of
18
              And I'm going to put these on, and I
                                                           18
                                                                disposable earplugs would include that when you have
                                                           19
19
    want you to --
                                                                dirty hands, it's -- you may get the earplug dirty by
20
              MR. CICCONE: You don't have to put me
                                                           20
                                                                rolling it up. Foam earplugs are slightly harder to
21
                                                           21
                                                                get a good fit with than some of the other types of
    on camera.
22
        Q. (BY MR. CICCONE) I'm going to put them on.
                                                           22
                                                                earplugs.
23
              Am I wearing them correctly?
                                                           23
                                                                         Other disadvantages are, you know, can
24
              MR. GONZALEZ: Objection, form.
                                                           24
                                                                be expense because if you go through a lot of them,
25
              THE WITNESS: Yes.
                                                           25
                                                                they can add up expense-wise.
                                                Page 43
                                                                                                            Page 45
       Q. (BY MR. CICCONE) You want to put them on so
1
                                                                  Q. (BY MR. CICCONE) Colonel, are proper
2
    you can show the camera.
                                                           2
                                                               fitting techniques for earplugs difficult to learn?
3
             MR. GONZALEZ: No. Counsel, I'm not
                                                           3
                                                                        MR. GONZALEZ: Object to form.
4
    going to allow her to do that --
                                                           4
                                                                        THE WITNESS: I don't believe so.
5
             MR. CICCONE: Okay.
                                                           5
                                                                          (Exhibit 2 marked)
6
             MR. GONZALEZ: -- as far as a
                                                           6
                                                                  Q. (BY MR. CICCONE) Well, remember, we were
7
    demonstrative with the witness.
                                                           7
                                                               talking about The Hearing Conservation Manual,
8
       Q. (BY MR. CICCONE) Tell me, Colonel, with
                                                           8
                                                               including Chapter 13 that you coauthored. It's been
9
   respect to a pair of earmuffs, okay, how would you --
                                                           9
                                                               marked as an exhibit. It's Exhibit No. 2.
                                                           10
10
    how would a person wear them to maximize the
                                                                         And I'd like to direct your attention
11
    protection that the earmuffs would provide?
                                                           11
                                                                to page 108 where you've listed the disadvantages of
12
       A. According to the directions on the package.
                                                           12
                                                                disposable foam earplugs. And you've listed
13
       Q. Well, Colonel, this particular package has
                                                                "attenuation depends highly on fit." Then you say,
                                                           13
14
    no directions. I mean, could you give us some
                                                                "proper fitting technique can be difficult to learn."
15
    general pointers on what someone should do to wear a
                                                           15
                                                                And then of course you talked about the hygiene
16
    pair of earmuffs appropriately or correctly?
                                                           16
                                                                issues.
17
             MR. GONZALEZ: Object to form.
                                                           17
                                                                         Do you remember writing that?
18
       Q. (BY MR. CICCONE) Oh, the insert.
                                                           18
                                                                   A. I do.
19
       A. Yes.
                                                           19
                                                                   Q. Do you think that's correct?
20
       Q. Good, thank you. Do you believe that
                                                           20
                                                                   A. It can be difficult to learn.
21
    somebody needs to read instructions in order to know
                                                           21
                                                                   Q. Right, can be difficult to learn.
22
    how to wear, for example, earmuffs correctly, or have
                                                           22
                                                                         And tell me, Colonel, why you believe
23
    some prior experience or perhaps have some
                                                           23
                                                                that proper fitting techniques can be difficult to
24
                                                           24
    instruction?
                                                                learn.
25
                                                           25

 One or the other of those things.

                                                                   A. Compared to many of the other hearing
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	riai cii 0		2020 40 00 49
1	Page 46 protectors, there's more steps involved in fitting a	1	Page 48 want to play that I believe is you, and it came from
2	foam earplug than, say, a reusable earplug or	2	the Honeywell site or YouTube or one of the two, and
3	earmuff.	3	it's only 30 seconds long.
4	Q. Anything else?	4	But before we play the video, you talk
5	A. One of those steps is rolling it down, and	5	in the video about VeriPRO, and tell me what VeriPRO
6	again it's important to follow directions and do that	6	is.
7	appropriately.	7	A. VeriPRO is a Honeywell earplug fit testing
8	Q. Well, we're going to talk more about that	8	system.
9	in a minute.	9	Q. And is it an electronic device? Is it some
10	Colonel, do you believe that it is	10	sort of a mechanical tool? What is it exactly?
11	important to have at least some instruction to learn	11	A. It's a software and patented earmuff system
12	how to properly wear foam earplugs?	12	that actually allows you to measure how much
13	MR. GONZALEZ: Objection, form.	13	protection a person is getting from their particular
14	THE WITNESS: It it can be. It	14	earplug.
15	very much depends on the person's ears. Some ears	15	Q. And you said it's proprietary or it's
16	are easy to fit.	16	patented?
17	Q. (BY MR. CICCONE) Let me direct your	17	A. It is.
18	attention to Chapter 14 of The Hearing Conservation	18	Q. Does Honeywell own the patent, if you know?
19	Manual that I believe that you coauthored. And what	19	A. I assume they do, yes.
20	you say this is, this is first paragraph on page 121:	20	Q. Does Honeywell sell that equipment, if you
21	Too often the person providing hearing	21	know?
22	protection training is little more than a dispenser,	22	MR. GONZALEZ: Objection, form.
23	handing the worker earplugs and saying, quote, "Here	23	THE WITNESS: Yes, they do.
24	use this around loud noise," end quote, or "Stick	24	Q. (BY MR. CICCONE) And do you have experience
25	these in your ears", end quote.	25	using this equipment?
23	these in your ears, end quote.	23	dailing this equipment:
1			
	Page 47		Page 49
1	Do you remember writing that?	1	A. Yes, sir.
2	Do you remember writing that? A. Yes.	2	A. Yes, sir. Q. What experience do you have using that
2 3	Do you remember writing that? A. Yes. Q. Have you encountered situations	2	A. Yes, sir. Q. What experience do you have using that equipment?
2 3 4	Do you remember writing that? A. Yes. Q. Have you encountered situations MR. GONZALEZ: What page is that,	2 3 4	A. Yes, sir. Q. What experience do you have using that equipment? A. Part of my job at Honeywell was to teach
2 3 4 5	Do you remember writing that? A. Yes. Q. Have you encountered situations MR. GONZALEZ: What page is that, Counsel?	2 3 4 5	A. Yes, sir.Q. What experience do you have using that equipment?A. Part of my job at Honeywell was to teach people how to use that equipment, to do what we
2 3 4 5 6	Do you remember writing that? A. Yes. Q. Have you encountered situations MR. GONZALEZ: What page is that, Counsel? MR. CICCONE: This is page 121.	2 3 4 5 6	A. Yes, sir. Q. What experience do you have using that equipment? A. Part of my job at Honeywell was to teach people how to use that equipment, to do what we called implementation visits to teach them how to use
2 3 4 5 6 7	Do you remember writing that? A. Yes. Q. Have you encountered situations MR. GONZALEZ: What page is that, Counsel? MR. CICCONE: This is page 121. MR. GONZALEZ: Thank you.	2 3 4 5 6 7	A. Yes, sir. Q. What experience do you have using that equipment? A. Part of my job at Honeywell was to teach people how to use that equipment, to do what we called implementation visits to teach them how to use it.
2 3 4 5 6 7 8	Do you remember writing that? A. Yes. Q. Have you encountered situations MR. GONZALEZ: What page is that, Counsel? MR. CICCONE: This is page 121. MR. GONZALEZ: Thank you. Q. (BY MR. CICCONE) Colonel, have you	2 3 4 5 6 7 8	A. Yes, sir. Q. What experience do you have using that equipment? A. Part of my job at Honeywell was to teach people how to use that equipment, to do what we called implementation visits to teach them how to use it. Q. Okay. And so, for example, would you go to
2 3 4 5 6 7 8 9	Do you remember writing that? A. Yes. Q. Have you encountered situations MR. GONZALEZ: What page is that, Counsel? MR. CICCONE: This is page 121. MR. GONZALEZ: Thank you. Q. (BY MR. CICCONE) Colonel, have you encountered situations where workers are given	2 3 4 5 6 7 8	A. Yes, sir. Q. What experience do you have using that equipment? A. Part of my job at Honeywell was to teach people how to use that equipment, to do what we called implementation visits to teach them how to use it. Q. Okay. And so, for example, would you go to an employer's facility, if you were invited to do so,
2 3 4 5 6 7 8 9	Do you remember writing that? A. Yes. Q. Have you encountered situations MR. GONZALEZ: What page is that, Counsel? MR. CICCONE: This is page 121. MR. GONZALEZ: Thank you. Q. (BY MR. CICCONE) Colonel, have you encountered situations where workers are given hearing protectors, but are given no instructions or	2 3 4 5 6 7 8 9	A. Yes, sir. Q. What experience do you have using that equipment? A. Part of my job at Honeywell was to teach people how to use that equipment, to do what we called implementation visits to teach them how to use it. Q. Okay. And so, for example, would you go to an employer's facility, if you were invited to do so, and teach employees how to properly wear earplugs and
2 3 4 5 6 7 8 9 10	Do you remember writing that? A. Yes. Q. Have you encountered situations MR. GONZALEZ: What page is that, Counsel? MR. CICCONE: This is page 121. MR. GONZALEZ: Thank you. Q. (BY MR. CICCONE) Colonel, have you encountered situations where workers are given hearing protectors, but are given no instructions or inadequate instruction with respect to how to	2 3 4 5 6 7 8 9 10	A. Yes, sir. Q. What experience do you have using that equipment? A. Part of my job at Honeywell was to teach people how to use that equipment, to do what we called implementation visits to teach them how to use it. Q. Okay. And so, for example, would you go to an employer's facility, if you were invited to do so, and teach employees how to properly wear earplugs and then verify their performance with this equipment
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1	website, just so there's a record.	Page 50	1	Page 52 A. Yes, sir.
2	MR. CICCONE: Well, it's going to be		2	Q. Okay. And does that refresh your
3	on the flash drive that I gave. We produced it. And		3	recollection of what basic skills means in terms of
4	it either came from Honeywell's website or from		4	fitting hearing protectors?
5	YouTube or from both. It may be published on both.		5	MR. GONZALEZ: Object to form.
6	MR. GONZALEZ: Can we can we do		6	THE WITNESS: In that context, I would
7	this I guess later on somehow leave a blank, so we		7	say the basic skills are taught on the instruction
8	can insert it somewhere?			packages of earmuffs and earplugs.
9	MR. CICCONE: Sure.		8	
10	MR. GONZALEZ: We'll leave a blank on		9	Q. (BY MR. CICCONE) Colonel, in your
			10	experience have you found that it's helpful to
11	the transcript, and the blank will have in		11	demonstrate to people how to properly wear hearing
12	parenthesis, insert the website address.		12	protectors?
13	(INSERT WEBSITE ADDRESS)		13	MR. GONZALEZ: Object to form.
14	MR. CICCONE: Ready?		14	THE WITNESS: It can be helpful.
15	Q. (BY MR. CICCONE) Well, first of all, is		15	Q. (BY MR. CICCONE) And didn't you say that in
16	that you, Teresa Y. Schultz, PhD, Lieutenant Colonel,		16	the video?
17	USAF, Retired?		17	A. Yes.
18	A. Yes, sir.		18	Q. Okay. Colonel, in the other article that
19	Q. And this "Hear Forever" trademark, what is		19	we talked about briefly in The Hearing Conservation
20	that?		20	Manual, I'm going to cite you the page, 121
21	A. That was an educational campaign that		21	MR. GONZALEZ: And that's exhibit?
22	Honeywell had to teach people about hearing		22	MR. CICCONE: Chapter 14 we didn't
23	conservation.		23	copy, but I will copy it later.
24	Q. Okay. And you say you talk about the		24	Q. (BY MR. CICCONE) This is only one line.
25	beauty of VeriPRO earplug fit testing. Is that what		25	Colonel, you said on page 121, "Numerous studies have
	V0	Page 51		Page 53
	it says?	Page 51	1	shown that the best way for workers to learn about
2	A. That's what it says.	Page 51	2	shown that the best way for workers to learn about hearing protection is through one-on-one training.
3	A. That's what it says.Q. Okay. And when you you made this video.	Page 51	2	shown that the best way for workers to learn about hearing protection is through one-on-one training. Workers need to know not only when and why they
2 3 4	A. That's what it says.Q. Okay. And when you you made this video.Do you remember making the video?	Page 51	2 3 4	shown that the best way for workers to learn about hearing protection is through one-on-one training. Workers need to know not only when and why they should use earplugs, but how to use them
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. That's what it says. Q. Okay. And when you you made this video. Do you remember making the video? A. Yes, sir. Q. And do you remember when you made the video? A. I couldn't tell you a year. Q. Like, within the last ten years? A. Yes. Q. And, obviously, you made it while you were with Honeywell? A. Yes. Q. And whose idea was it that you make this video? Was it your idea or was it somebody else's idea? A. It was somebody else's idea. Q. Let's play it, and then if you remember more about it.	Page 51	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	shown that the best way for workers to learn about hearing protection is through one-on-one training. Workers need to know not only when and why they should use earplugs, but how to use them effectively." Okay. Do you remember writing that? A. Yes, sir. Q. And do you think that's true? A. Yes, sir, that applies to workers. Q. Okay. Well, would it apply to anybody who's potentially exposed to high noise levels? MR. GONZALEZ: Objection, form. THE WITNESS: It could. Q. (BY MR. CICCONE) Okay. Colonel, why do you believe that the best way for workers to learn about hearing protection is through one-on-one training? A. Because everybody's ear canal is a little different. Q. Any other reasons?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. That's what it says. Q. Okay. And when you you made this video. Do you remember making the video? A. Yes, sir. Q. And do you remember when you made the video? A. I couldn't tell you a year. Q. Like, within the last ten years? A. Yes. Q. And, obviously, you made it while you were with Honeywell? A. Yes. Q. And whose idea was it that you make this video? Was it your idea or was it somebody else's idea? A. It was somebody else's idea. Q. Let's play it, and then if you remember more about it. (Exhibit 3 marked) (Video playing)		2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	shown that the best way for workers to learn about hearing protection is through one-on-one training. Workers need to know not only when and why they should use earplugs, but how to use them effectively." Okay. Do you remember writing that? A. Yes, sir. Q. And do you think that's true? A. Yes, sir, that applies to workers. Q. Okay. Well, would it apply to anybody who's potentially exposed to high noise levels? MR. GONZALEZ: Objection, form. THE WITNESS: It could. Q. (BY MR. CICCONE) Okay. Colonel, why do you believe that the best way for workers to learn about hearing protection is through one-on-one training? A. Because everybody's ear canal is a little different. Q. Any other reasons? A. That's the main reason. Q. Colonel, have you instructed people
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. That's what it says. Q. Okay. And when you you made this video. Do you remember making the video? A. Yes, sir. Q. And do you remember when you made the video? A. I couldn't tell you a year. Q. Like, within the last ten years? A. Yes. Q. And, obviously, you made it while you were with Honeywell? A. Yes. Q. And whose idea was it that you make this video? Was it your idea or was it somebody else's idea? A. It was somebody else's idea. Q. Let's play it, and then if you remember more about it. (Exhibit 3 marked) (Video playing) (INSERT WEBSITE ADDRESS)		2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	shown that the best way for workers to learn about hearing protection is through one-on-one training. Workers need to know not only when and why they should use earplugs, but how to use them effectively." Okay. Do you remember writing that? A. Yes, sir. Q. And do you think that's true? A. Yes, sir, that applies to workers. Q. Okay. Well, would it apply to anybody who's potentially exposed to high noise levels? MR. GONZALEZ: Objection, form. THE WITNESS: It could. Q. (BY MR. CICCONE) Okay. Colonel, why do you believe that the best way for workers to learn about hearing protection is through one-on-one training? A. Because everybody's ear canal is a little different. Q. Any other reasons? A. That's the main reason. Q. Colonel, have you instructed people one-on-one, or perhaps even in groups, on how to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. That's what it says. Q. Okay. And when you you made this video. Do you remember making the video? A. Yes, sir. Q. And do you remember when you made the video? A. I couldn't tell you a year. Q. Like, within the last ten years? A. Yes. Q. And, obviously, you made it while you were with Honeywell? A. Yes. Q. And whose idea was it that you make this video? Was it your idea or was it somebody else's idea? A. It was somebody else's idea. Q. Let's play it, and then if you remember more about it. (Exhibit 3 marked) (Video playing) (INSERT WEBSITE ADDRESS) Q. (BY MR. CICCONE) Okay. Colonel, you heard		2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	shown that the best way for workers to learn about hearing protection is through one-on-one training. Workers need to know not only when and why they should use earplugs, but how to use them effectively." Okay. Do you remember writing that? A. Yes, sir. Q. And do you think that's true? A. Yes, sir, that applies to workers. Q. Okay. Well, would it apply to anybody who's potentially exposed to high noise levels? MR. GONZALEZ: Objection, form. THE WITNESS: It could. Q. (BY MR. CICCONE) Okay. Colonel, why do you believe that the best way for workers to learn about hearing protection is through one-on-one training? A. Because everybody's ear canal is a little different. Q. Any other reasons? A. That's the main reason. Q. Colonel, have you instructed people one-on-one, or perhaps even in groups, on how to properly wear earplugs?

	March U	4,	2020 54 to 57
1	Page 54 instruct their employees on how to properly wear	1	Page 56 record.
2	earplugs?	2	MR. CICCONE: I'm going to mark it as
3	A. Yes.	3	18.
4	Q. And, Colonel, when you were in the Air	4	MR. GONZALEZ: Thank you.
5	Force, did you ever instruct military personnel on	5	(Exhibit 18 marked)
6	how to properly wear hearing protection?	6	THE VIDEOGRAPHER: Excuse me, sir. We
7	A. Yes.	7	have about five minutes left on this tape.
8	Q. Now, you talked just briefly about	8	MR. CICCONE: Okay.
9	everybody's ear canal being a little different.	9	Q. (BY MR. CICCONE) Colonel, have you ever
10	A. Yes, sir.	10	seen Exhibit 18 before?
11	Q. And, Colonel, I've got a beautiful	11	A. Yes.
12	anatomical model that we've used in some other	12	Q. And when did you see it for the first time?
13	depositions. And if it will help you illustrate your	13	A. I saw it when it was being developed as
14	testimony, can you show us where the ear canal is?	14	edits were being done on it, and I saw it as a final
15	A. It's right here (indicating).	15	product.
16	Q. Okay. And is this a is this an actual	16	Q. And approximately when was that?
17	size or is this larger than life?	17	A. We've done a couple versions of this. So
18	A. Way larger than life.	18	my guess on this one would be maybe 2010, 2012,
19	Q. Okay. But does it help you to illustrate	19	somewhere around there.
20	your testimony to point out where the ear canal is?	20	Q. Ten, twelve years ago more or less?
21	A. Well, sure. It's this part right here	21	Okay.
22	(indicating).	22	(Reporter clarification)
23	Q. And tell me the theory behind earplugs.	23	THE WITNESS: 2010 or 2012.
24	What's the earplug supposed to do that will protect	24	THE REPORTER: And then he said, "Ten
25	your hearing?	25	or twelve years more or less?"
	Page 55		Page 57
1	A. The earplug is designed to block the	1	I didn't hear your answer.
2	transmission of sound down the ear canal.	2	MR. GONZALEZ: She said yes.
3	Q. Okay. And, Colonel, with regard to	3	THE REPORTER: Okay.
4	earplugs, does one size earplug fit everybody?	4	Q. (BY MR. CICCONE) And, Colonel, did you have
5	A. No.	5	any involvement in actually writing the language
6	Q. Okay. And is there such a thing in the	6	that's on Exhibit 18?
7	hearing protection industry as one size fits all for	7	A. In this latest version, no, sir.
8	earplugs?	8	Q. Okay. But you had worked on earlier
9	A. No. It's generally people say one size	9	versions?
10	fits most.	10	A. Yes, sir.
11	 Q. We talked earlier about this National 	11	Q. You actually authored some of the language?
12	Hearing Conservation Association?	12	A. I helped to edit some of the language.
13	A. NHCA.	13	Q. Okay. By "editing" you mean you read it
14	Q. NHCA. And, of course, you were the	14	and made suggestions for revisions?
15	president at one point. And there's a publication	15	A. Yes, sir.
16	that they have published, and tell me if you've ever	16	Q. Okay. And, Colonel, one of the one of
17	seen it before.	17	the things that is on Exhibit No. 18 reads this way,
18	I didn't mark it as an exhibit because	18	it says, "Although some expandable foam earplugs come
1			
19	I didn't know whether you were the author or had any	19	close, there's really no such thing as a one size
19 20	I didn't know whether you were the author or had any involvement in its preparation.	20	fits all HPD."
19 20 21	I didn't know whether you were the author or had any involvement in its preparation. Have you ever seen it before?	20 21	fits all HPD." Does HPD stand for hearing protection
19 20 21 22	I didn't know whether you were the author or had any involvement in its preparation. Have you ever seen it before? MR. GONZALEZ: Can you mark it,	20 21 22	fits all HPD." Does HPD stand for hearing protection device?
19 20 21 22 23	I didn't know whether you were the author or had any involvement in its preparation. Have you ever seen it before? MR. GONZALEZ: Can you mark it, Counsel, just because we're using it.	20 21 22 23	fits all HPD." Does HPD stand for hearing protection device? A. Yes, sir.
19 20 21 22 23 24	I didn't know whether you were the author or had any involvement in its preparation. Have you ever seen it before? MR. GONZALEZ: Can you mark it, Counsel, just because we're using it. MR. CICCONE: Sure.	20 21 22 23 24	fits all HPD." Does HPD stand for hearing protection device? A. Yes, sir. Q. And it continues, "Each person must be
19 20 21 22 23	I didn't know whether you were the author or had any involvement in its preparation. Have you ever seen it before? MR. GONZALEZ: Can you mark it, Counsel, just because we're using it.	20 21 22 23	fits all HPD." Does HPD stand for hearing protection device? A. Yes, sir.

58 to 61

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Page 58
                                                                                                                 Page 60
    HPD for their environment, noise exposure, anatomy,
                                                                  teaching.
                                                              1
2
    and hearing ability.
                                                              2
                                                                      Q. Okay. Were your remarks written out ahead
3
              Okay. Do you understand what I just
                                                              3
                                                                  time or was it was just ad lib on camera?
4
    read?
                                                              4
                                                                      A. Ad lib.
5
       A. Yes, sir.
                                                              5
                                                                      Q. Did somebody direct you, or did you just
6
       Q. Do you agree with that statement?
                                                              6
                                                                  turn a camera on and make a video?
7
                                                              7
                                                                      A. We had had a cameraman, much like today,
       A. Yes, sir.
8
       Q. And, Colonel, in Exhibit 18, the National
                                                              8
                                                                  and someone would ask a question, and I would
9
    Hearing Conservation, NHCA, they also say in this
                                                              9
                                                                  respond.
10
    publication, "Don't use just tell the individual how
                                                              10
                                                                      Q. How long do you think it took you to make
11
    to wear HPDs, have the wearer demonstrate correct
                                                              11
                                                                   that video?
12
    placement of the device. Stress the importance of a
                                                              12
                                                                      A. That particular one, I can't remember how
                                                              13
                                                                   many takes. But probably one or two takes of doing
13
    good seal for adequate noise protection. Show what a
14
    good fit feels and sounds likes, and reinforce the
                                                              14
                                                                   that.
    need to use HPDs at all times in noise."
                                                              15
15
                                                                      Q. And why did you need one or two takes?
16
              Do you understand what I just read?
                                                              16
                                                                      A. I might have stumbled over my speech a
                                                              17
17
                                                                  little bit.
        A. Yes, sir.
                                                              18
18
        Q. Do you agree with that statement?
                                                                      Q. Was that video edited later where bits and
                                                              19
                                                                   pieces were stitched together from the different
19
        A. That's part of training that we do.
        Q. Okay.
20
                                                              20
                                                                   takes?
21
             (Off the record discussion)
                                                             21
                                                                      A. No.
22
              THE VIDEOGRAPHER: Time now is
                                                              22
                                                                      Q. What was your purpose, Colonel, in making
23
    3:07 p.m. We are off the record.
                                                              23
                                                                   that video?
24
                                                              24
                                                                      A. To provide additional training if anyone
          (Recess from 3:07 p.m. to 3:18 p.m.)
25
              THE VIDEOGRAPHER: Time now is
                                                              25
                                                                  wanted it, to go on to our YouTube channel for added
                                                   Page 59
                                                                                                                 Page 61
1 3:18 p.m. We are back on the record.
                                                                  training.
2
      Q. (BY MR. CICCONE) Colonel, before the break
                                                              2
                                                                     Q. Training for who?
3 we were talking about fitting earplugs, and I've got
                                                              3
                                                                     A. Training for anyone using a foam earplug.
4 another short video of you that I'd like to show.
                                                              4
                                                                      Q. Okay. When you say "our YouTube channel",
  And after I show this video, which is about 2-minutes
                                                                  whose YouTube channel?
                                                              5
6 long, then I've got some questions I want to ask you
                                                              6
                                                                     A. Honeywell.
   about it.
                                                              7
                                                                      Q. Okay. And to your knowledge is that video
8
           MR. GONZALEZ: And then, for the
                                                              8
                                                                  available on Honeywell's YouTube channel?
   record, we'll have another blank and in parenthesis
                                                              9
                                                                     A. I don't know if it still is, but it was.
   next to the blank we'll insert the website address
                                                              10
                                                                      Q. Okay. Let me -- Now, we've listened to
11
   for the video.
                                                              11
                                                                   you, and I don't want to go back over the materials,
12
           Is that okay, Mr. Ciccone?
                                                              12
                                                                   and I've got earplugs and I don't want you to
13
           MR. CICCONE: Yes.
                                                              13
                                                                   demonstrate how to put the earplugs in.
14
           MR. GONZALEZ: Thank you.
                                                              14
                                                                            But what you did talk about that I
15
           MR. CICCONE: Ready.
                                                              15
                                                                   want to get you to expand upon, is this notion of:
16
             (Exhibit 4 marked)
                                                              16
                                                                   You said that there's a corner in a person's ear
17
             (Video playing.)
                                                              17
                                                                   canal. We've got the model, and if you don't mind
   (INSERT WEBSITE ADDRESS)
18
                                                              18
                                                                   showing us on the model where this corner is that you
19
      Q. (BY MR. CICCONE) Colonel, do you recall
                                                              19
                                                                   were talking about.
20
   when you made that video?
                                                              20
                                                                      A. So the ear canal is sort of in three parts.
21
      A. At the same time I made the other video in
                                                              21
                                                                   There's a part right down there by the eardrum that
22
   the earlier twenty-teens, 2010, 2011.
                                                              22
                                                                   is basically skin on cartilaginous on bone, and you
23
      Q. Did you write the script for that video or
                                                              23
                                                                   won't be down there.
```

24

There's another part in there that has

a little bit of padding in between. And then on the

24 did somebody else write it?

A. I wasn't a script. It was just me

25

62 to 65

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Page 64
                                                  Page 62
1 outside, the part that you sort of see when you look
                                                                to do it as well.
                                                             1
2 at somebody's ear, has a bit of a curve in most ear
                                                             2
                                                                    Q. And, Colonel, in the video you talk about
3
   canals, one way or another, either up or down or back
                                                             3
                                                                how it's sometimes helpful to give people feedback by
4
   or forward. And so pulling the ear from the outside,
                                                             4
                                                                taking a picture of the person with a cell phone or a
                                                             5
5
   like I demonstrated on the video, straightens that
                                                                camera, for example. And explain to me again why
6
   out a little bit.
                                                             6
                                                                that would be helpful to teaching a person to
7
       Q. I see. And, Colonel, explain to me again,
                                                             7
                                                                properly wear an earplug.
   if you don't mind, why is it important that you roll
                                                             8
                                                                          MR. GONZALEZ: Objection, form.
    the earplug down tight, in order to get around that
                                                             9
                                                                          THE WITNESS: It's an additional piece
10
    corner that you talked about in the video?
                                                            10
                                                                 of information because we can't see our ear canals,
11
             MR. GONZALEZ: Object to form.
                                                            11
                                                                 and having a camera take a picture of it while the
12
             THE WITNESS: Rolling the earplug is
                                                            12
                                                                 person opens it, let's them see their ear canal open.
13
                                                            13
                                                                 And it provides a feedback of: Oh, I see how it
    important to get a proper fit.
14
       Q. (BY MR. CICCONE) Okay. And when you insert
                                                            14
                                                                 opens when I do that.
    that earplug, is there any danger that you could
                                                            15
15
                                                                    Q. (BY MR. CICCONE) Well, Colonel, is it so
16
    actually touch your eardrum?
                                                            16
                                                                 difficult to learn how to do this that somebody would
17
       A. No. It's not exactly to scale, but an ear
                                                            17
                                                                 need that kind of feedback?
    canal is maybe about this long.
                                                            18
                                                                    A. No, sir.
18
19
       Q. About the length of your little finger?
                                                            19
                                                                          MR. GONZALEZ: Objection, form.
20
       A. Yes. And an earplug only goes in about
                                                            20
                                                                    Q. (BY MR. CICCONE) Then why is it -- why do
21 that far.
                                                            21
                                                                 you find it helpful to give somebody feedback by
22
       Q. Okay. And in the video you were
                                                            22
                                                                 using a cell phone camera?
23
    demonstrating this reach around technique. Where,
                                                            23
                                                                          MR. GONZALEZ: Object to form.
24
    for example, if I wanted to put the plug in my left
                                                            24
                                                                          THE WITNESS: Just an additional
    ear, I would reach around my head with my right hand
                                                            25
                                                                 training technique.
                                                  Page 63
                                                                                                              Page 65
    and pull my ear up and out to straighten the ear
                                                                    Q. (BY MR. CICCONE) Okay. And you also talk
2
   canal?
                                                             2
                                                                in this video about wiggling the earplug. I don't
3
       A. Yes.
                                                             3
                                                                quite understand what you mean when you say "wiggle
4
       Q. And, Colonel, does it matter what hand you
                                                             4
                                                                the earplug". Wiggle it in what way?
   use if you're going to insert the plug in our left
                                                             5
5
                                                                   A. Just as you insert the earplugs.
6
   ear?
                                                             6
                                                                    Q. Okay. And, Colonel, can you rotate the
7
                                                             7
             For example, why can't I use my left
                                                                earplug as you're inserting it to help see it?
8
   hand to put my ear out and back, and then insert the
                                                             8
                                                                   A. Yes.
9
    plug with my right hand.
                                                             9
                                                                   Q. Do people do that?
10
       A. You could, it's just not as easy.
                                                            10
                                                                    A. Yes.
11
       Q. And is this a technique that you developed
                                                            11
                                                                    Q. Is that something that you recommend?
12
    yourself or is this a technique that was developed by
                                                            12
                                                                    A. Yes.
13
    other people in hearing conservation community?
                                                            13
                                                                    Q. Can a person moisten the earplug, for
14
             MR. GONZALEZ: Objection, form.
                                                            14
                                                                 example, by putting it in his or her mouth to help
15
             THE WITNESS: This is a technique that
                                                            15
                                                                 insert it?
    everybody in the hearing conservation community uses.
16
                                                            16
                                                                          MR. GONZALEZ: Objection, form.
       Q. (BY MR. CICCONE) Okay. Going back how far?
17
                                                            17
                                                                          THE WITNESS: People do.
18
       A. As long as I've been in the business.
                                                            18
                                                                    Q. (BY MR. CICCONE) Do you recommend that?
19
       Q. And that's over 30 years?
                                                            19
                                                                    A. No.
20
       A. Yes.
                                                            20
                                                                    Q. Why not?
21
       Q. Did somebody teach you how to do this?
                                                            21
                                                                    A. Hygiene.
22
                                                            22
       A. Well, I've looked at a lot of instructions
                                                                    Q. And finally, you talked about letting the
23
    on hearing protectors, and then probably gone to
                                                            23
                                                                 earplug expand in your ear. Is that important?
24
                                                            24
    other people's seminars and shared teaching
                                                                    A. Generally, if you put the earplug in deep
```

25

enough into your ear canal, it's going to expand

25

techniques, and -- so, yes, people have taught me how

Page 66

9 correctly inserted? 10 MR. GONZALEZ: Objection, form. THE WITNESS: Intuition. For example, 11 12 if you put your fingers up to your earplugs -- your 13 ear canals and close them off and your voice sounded 14 muffled and everything got quiet, that's how you know 15 you're getting a good fit. 16 Q. (BY MR. CICCONE) Colonel, when somebody is 17 correctly wearing earplugs, can the person generally hear normal speech by people around him or her? 18 19 MR. GONZALEZ: Objection, form. 20 THE WITNESS: Speech, if they're 21 wearing the earplug properly, is likely to be 22 diminished. 23 Q. (BY MR. CICCONE) But can you still hear 24 somebody who is speaking in a normal tone of voice if 25 you're wearing your earplugs properly? Page 67 1 MR. GONZALEZ: Objection, form. 2 THE WITNESS: It depends on your 3 hearing ability and their volume. 4 Q. (BY MR. CICCONE) Colonel, the conversation 5 that we're having now, can you give us the range of 6 the approximately number of decibels that our voices 7 are generating in this conversation? 8 MR. GONZALEZ: Objection, form. 9 THE WITNESS: I wish I could pull out 10 my cell phone and do my little decibel level meter, 11 but I would guess about 65 decibels. 12 Q. (BY MR. CICCONE) Okay. And you said that the OSHA threshold is, what, 95 decibels? 13 14 A. Ninetv. 15 Q. Ninety? And firearm is, what, 160 to 170? 16 A. Depends on the firearm. I had said a 17 firearm could be 120 to 170. 18 Q. Colonel, does an earplug have to completely 19 seal a person's ear canal in order to attenuate noise 20 to a safe level? 21 A. That's a complex question. It depends on 22 the noise, but in general that's the purpose of the 23 earplug is to obtain a seal to block a sound. 24 Q. Well, for example, with respect to a very 25 high noise level, for example a firearm at 160

1 without you doing anything. If you don't have it

deeply inserted, just letting it expand, listening to

information feedback that you're getting a good fit.

earplugs are correctly inserted? You talked about

how would somebody know that the earplugs are

this VeriPRO device, but without that kind of device

Q. And, Colonel, how does somebody know if the

it expand, again just gives you some additional

2

3

4

5

6

7

8

66 to 69 Page 68 decibels, would the earplug wearer need a complete seal in order to be protected against the high noise 3 level? 4 MR. GONZALEZ: Objection, form. 5 THE WITNESS: Yeah. There's some 6 studies on impulse noise that show that even with 7 somewhat degraded fit, you can still be protected 8 from impulse noise with hearing protectors. 9 Q. (BY MR. CICCONE) Okay. When you say 10 "somewhat protected", what do you mean? 11 A. Get enough attenuation to not get a 12 temporary hearing loss or a permanent hearing loss. 13 Q. Have there been any studies that have been 14 done that actually document how much attenuation from 15 impulse noise that a person receives from improperly 16 fitted earplugs? 17 MR. GONZALEZ: Object to form. 18 THE WITNESS: There's a study that I'm 19 thinking of that was done in the Army years ago that 20 had soldiers exposed to -- it wasn't even weapon's 21 fire. It was explosive fire -- with, again, degraded 22 fit. And videos of seeing that the earplug was not a 23 perfect fit and how it moved around as the explosion came. And then they immediately tested the hearing 24 25 or these soldiers, and they did not have temporary or Page 69 1 permanent hearing loss. 2 Q. (BY MR. CICCONE) Was this a controlled 3 experiment? 4 A. It was, yes. 5 Q. So they intentionally exposed soldiers to a 6 potentially dangerous sound level to determine how 7 much attenuation the improperly fitted plugs were 8 giving them? 9 A. This was before a lot of the protections 10 these days. This was back in the '60s. 11 But they had done some work ahead of 12 time, some pilot work, to determine that the soldiers 13 would only get temporary hearing loss, if they got 14 any. And then they conducted this experiment and 15 showed that didn't get even temporary, much less 16 permanent hearing loss. 17 Q. Do you know if those soldiers were followed 18 later in life to determine whether or not they were 19 experiencing hearing loss later on? 20 A. I do not know. 21 Q. Okay. Do you think that today that the 22 military would attempt to conduct that kind of 23 experiment on its personnel?

MR. GONZALEZ: Objection, form.

THE WITNESS: Not under current IRB

24

25

70 to 73

Page 70 1 standards. 1 2 Q. (BY MR. CICCONE) "IRB" means what? 2 3 A. Institutional Review Board, it's the 3 4 research approval process. 4 5 Q. Colonel, in The Hearing Conservation 6 Manual, this is chapter 13 that you co-authored. On 6 7 page 114 you include a section on dual protection, 7 of the energy. dual protection or double protection. 8 9 And tell me what that refers to dual 9 10 protection or double protection. 10

11 A. Those terms are often used interchangeably,

12 and mean using two types of hearing protection, most 13 commonly an earplug and an earmuff. 14

Q. And you say in this article that, "Dual protection can be helpful in very high noise levels 15 16 above 105 decibels." Do you remember writing that?

18 Q. Okay. I think you described earlier that 19 our speech is in the relative low decibel range. You 20 said that the OSHA level was about 90, and you talked

about firearms could from 120 up to, say, 170? 22 A. You've moved from continuous noise to 23 impulse noise in that question that you just gave.

24 So just to clarify, our speech is 25 measured on the continuous noise scale at 65 dB. The

Page 72 A. Decibels are measures on a logarithmic

scale, so think exponents not going up additively but

exponentially. If you have a continuous noise of 90

dB, and another continuous noise of 90 dB right next

to it, two machines, your resulting noise is not 180

dB, it's 93 dB. And that 3 dB additive is a doubling

Q. Okay. And what I'm interested in knowing

in particular is, say, I've got two hearing protection devices. For example, the Shooter's

11 earplugs that are at issue in this case that are

12 rated at 33 NRR. And then we've got these Leightning

13 L3 earmuffs that are rated -- I think they're at 30

dB NRR? 14

15

21

22

23

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21

24

A. Right on top.

16 Q. Yes, 30 dB and NRR. I want you to explain 17 to me if you can, if I wear the earplugs and the 18 earmuffs together, in other words, dual hearing protection, can I expect a noise reduction rating of 19 20 63? That would be adding the two sums together.

A. No, sir.

Q. Okay. Colonel, approximately how would you determine what the attenuation is by wearing the dual protectors?

A. The method to determine the amount for dual

Page 73

Page 71 OSHA standard is saying you can only be permitted to 2 90 decibel continuous noise are lower for an 8-hour 3 period.

4 And now you've just move to impulse 5 noise which has a different permissible exposure 6 level, and a different way of measuring. It's in dB 7 peak versus dBA.

Q. Okay. But is it your conclusion in this 9 article that "Double hearing protection can protect a 10 person for exposure to continuous noise above 105

11 decibels"?

17

21

8

A. Yes.

12 A. Yes, sir.

Q. Okay. Is it your opinion, Colonel, that 13 14 double hearing protection can also protect someone

15 from exposure to impulse noise? 16

A. It can.

17 Q. Okay. And, for example, would it protect 18 somebody from impulse noise such as impulse noise

that could be generated by a firearm? 19

20 A. It can.

21 Q. Colonel, does wearing double hearing

22 protection, for example, the earmuffs and the

23 earplugs, does it double the attenuation of the noise

or is there some formula to determine what the 24

25 attenuation is? protection is in your example to know how much you're

getting from the earplug, which in this case is a

noise rating of 33. If indeed you are getting 33

4 from it, and you added muffs on top of it, you can

add about 5 dB. And that's a good rule of thumb that

6 OSHA recommends for double protection.

7 Q. Okay. So I take the 33 from -- for

8 example, the Shooter's earplugs that are rated at 33

9 NRR and then add 5 to that?

A. Yes.

11 Q. So that would be an approximate noise 12 reduction rating of, say, 38?

A. Yes, sir.

14 Q. Am I right?

> Okay. And that's assuming that I'm wearing the plugs correctly; is that correct?

A. Yes.

Q. And if I'm not wearing the plugs correctly, does that formula is it accurate, or would it accurately effect what the noise reduction rating would be?

22 A. The rating would change depending on the 23 properness of either of the hearing protectors.

Q. Would it go up or down?

25 A. It depends on how you're wearing it. It

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Page 74
                                                                                                              Page 76
                                                                I worked at the Pittsburgh office, but we did work
1 would likely go down if you weren't wearing it
2
   properly.
                                                             2
                                                                together, yes.
3
       Q. Now, Colonel, are you familiar with the
                                                             3
                                                                    Q. Okay. So in other words, you were
4
   notion that the use of double hearing protection from
                                                             4
                                                                professional colleagues?
                                                             5
5
   the earmuffs and earplugs can provide a person who is
                                                                    A. Yes, sir.
6
   exposed to firearm noise with more protection than
                                                             6
                                                                    Q. Okay. I want you to take a look at the
7
    the use of a single device alone? Are you familiar
                                                             7
                                                                articles and let me ask you a question about it.
   at all with that notion?
                                                             8
                                                                    A. (Reading.)
9
       A. That notion is recommended by NIOSH, yes.
                                                             9
                                                                          Okay.
10
       Q. Okay. And I wanted to ask you that. We've
                                                             10
                                                                    Q. Colonel, what I have done is I have
    got a number of papers that I want to very briefly go
11
                                                             11
                                                                 highlighted a couple of things in this article, just
12
    through. The first one is a -- it's a 2008 paper by
                                                             12
                                                                 to draw your attention to them. And am I correct
                                                             13
13
    William Murphy, and that's titled "Assessment of
                                                                 that what Murphy was investigating was noise exposure
14
    Noise Exposure for Indoor and Outdoor Firing Ranges".
                                                            14
                                                                 to firearm's noise by law enforcement officers. Is
15
             First of all, are you familiar with
                                                             15
                                                                 that your understanding of what the context of the
                                                             16
                                                                 paper was?
16
    the paper?
                                                             17
17
                                                                    A. I believe it was.
       A. Yes.
18
                                                             18
                                                                    Q. I think they were SWAT team members, if I'm
             MR. GONZALEZ: Counsel, you're going
                                                             19
                                                                 remembering correctly. And one of the things he
19
    to mark each one, right?
20
             MR. CICCONE: No. I didn't mark
                                                             20
                                                                 says -- and let me direct your attention to -- it's
21
    the -- I will if you want me to.
                                                            21
                                                                 on page 696. And apparently what they did, the
22
             MR. GONZALEZ: Just so we have a
                                                             22
                                                                 officers were wearing earmuffs and then they gave
23
    record of -- as you're going along.
                                                            23
                                                                 them earplugs to wear with the earmuffs and Murphy
24
             MR. CICCONE: I can. They're all on
                                                            24
                                                                 concludes, those peak reduction results along with
25
    the thumb drive that I gave you. I was trying to
                                                                 the peak noise level measured for the weapons,
                                                  Page 75
                                                                                                              Page 77
    avoid attaching all of those to the deposition, just
                                                                 indicate that the officers should consider using dual
2
    because of the volume, but I will if you want to.
                                                             2
                                                                hearing protection during weapons training exercises.
3
               (Exhibit 19 marked)
                                                             3
                                                                          And then he continues on with his
4
       Q. (BY MR. CICCONE) Okay. Colonel, Exhibit
                                                             4
                                                                recommendations. "Dual hearing protection provides
5
    No. 19 is a copy of Murphy's article. Have you ever
                                                             5
                                                                maximum peak level reduction, greater than 40
6
    seen the article before?
                                                             6
                                                                decibels for the purpose of reducing impulsive noise
7
                                                             7
                                                                 due to small arms firing. Use of double protection,
       A. Let me look at it. Bill Murphy is a
8
    prolific researcher, so he's written a lot of
                                                             8
                                                                 can minimize the potential risk of improper fitting
9
    articles.
                                                             9
                                                                 of earplugs."
10
                                                             10
        Q. Yeah. While you're looking through it, I
                                                                           Did you understand what I just read?
11
    wanted to ask you about that. When you say "Murphy
                                                            11
                                                                     A. Yes, sir.
12
    is a prolific researcher," he has written a lot of
                                                             12
                                                                     Q. Okay. That last -- that recommendation,
13
    articles in this community, has he not?
                                                                  "use of double protection can minimize the risk --
                                                             13
14
        A. He has.
                                                             14
                                                                  the potential risk of improper fitting of earplugs."
15
        Q. And, in fact, you've coauthored some
                                                             15
                                                                           Do you agree with that recommendation?
16
    articles with him, have you not?
                                                             16
                                                                           MR. GONZALEZ: Objection, form.
17
       A. I have.
                                                             17
                                                                           THE WITNESS: Yes, sir.
                                                                     Q. (BY MR. CICCONE) Okay. And tell me about
18
        Q. Okay. Do you know him personally?
                                                             18
19
        A. I do.
                                                             19
                                                                 this potential risk of improper fitting of earplugs.
20
        Q. Is this somebody you could call if you
                                                            20
                                                                 What's Murphy talking about in this article, if you
21
    wanted to and talk to him about some issue that you
                                                            21
                                                                 know?
                                                            22
22
    were concerned about?
                                                                           MR. GONZALEZ: Objection, form.
23
       A. Yes, sir.
                                                            23
                                                                           THE WITNESS: Well, it seems fairly
24
        Q. And did y'all work at NIOSH together?
                                                            24
                                                                 clear. Actually, let me look at his words because
25
        A. Yes. He worked a the Cincinnati office and
                                                             25
                                                                 they seemed quite clear to me. Is that if you
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	March 0	-,	2020 /6 to 81
1	Page 78 weren't wearing the earplug correctly, you have a	1	you first read Murphy's paper?
2	backup of wearing the earmuff correctly.	2	MR. GONZALEZ: Object, form.
3	Q. (BY MR. CICCONE) When he talks about this	3	THE WITNESS: Possibly the in 2008.
4	potential risk of improperly fitted earplugs, do you	4	Q. (BY MR. CICCONE) Okay. About the time that
	see where he wrote that?	5	he published it?
5			•
6	A. Yes. Double protection minimizes that	6	A. Probably, yes.
7	potential risk.	7	Q. Okay. And, Colonel, at that time were you
8	Q. Okay. What potential risk is he talking	8	working for Sperian?
9	about?	9	A. Yes, by that time I was.
10	MR. GONZALEZ: Objection, form.	10	Q. Okay. And you were a hearing conservation
11	THE WITNESS: I'm guessing the	11	manager for Sperian when you read that paper?
12	potential risk he's referring to and, again, I	12	A. Possibly.
13	would need to read through the whole article to make	13	Q. Do you recall discussing Murphy's paper,
14	sure I'm understanding it.	14	Murphy's recommendation with any of your colleagues
15	Q. (BY MR. CICCONE) Of course, of course.	15	at Sperian?
16	A. But the potential risk would be if you	16	MR. GONZALEZ: Objection, form.
17	didn't fit the earplug right, you have a backup of	17	A. Not specifically.
18	fitting the earmuff correctly.	18	Q. (BY MR. CICCONE) Do you remember discussing
19	Q. Okay. But a risk of what, noise induced	19	it in general?
20	hearing loss?	20	MR. GONZALEZ: Object to form.
21	MR. GONZALEZ: Objection, form.	21	THE WITNESS: Not specifically.
22	THE WITNESS: Yes, sir.	22	Q. (BY MR. CICCONE) Do you believe or have
23	Q. (BY MR. CICCONE) Okay. So do you	23	reason to believe that your colleagues at Sperian
24	understand Murphy to be saying that there is a	24	were aware of Murphy's paper and his recommendations?
25	potential risk of noise induced hearing loss if the	25	MR. GONZALEZ: Objection, form.
	D 70		Daga 01
	Page 79		Page 81
1	plugs don't fit correctly?	1	THE WITNESS: I can't recall that.
2	plugs don't fit correctly? MR. GONZALEZ: Objection, form.	2	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to
2 3	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir.		THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert.
2 3 4	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that?	2 3 4	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going
2 3 4 5	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form.	2 3 4 5	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20.
2 3 4 5 6	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir.	2 3 4 5 6	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009?
2 3 4 5	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Okay. And this potential	2 3 4 5	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009? MR. CICCONE: 2009.
2 3 4 5 6	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Okay. And this potential risk that Murphy talks about in his 2008 article,	2 3 4 5 6	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009? MR. CICCONE: 2009. (Exhibit 20 marked)
2 3 4 5 6 7	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Okay. And this potential risk that Murphy talks about in his 2008 article, Colonel, do you believe that that potential risk is	2 3 4 5 6 7 8 9	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009? MR. CICCONE: 2009. (Exhibit 20 marked) Q. (BY MR. CICCONE) And, Colonel, have you
2 3 4 5 6 7 8 9	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Okay. And this potential risk that Murphy talks about in his 2008 article, Colonel, do you believe that that potential risk is one that the hearing conservation community is aware	2 3 4 5 6 7 8	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009? MR. CICCONE: 2009. (Exhibit 20 marked) Q. (BY MR. CICCONE) And, Colonel, have you ever seen the 2009 NIOSH alert?
2 3 4 5 6 7 8 9 10	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Okay. And this potential risk that Murphy talks about in his 2008 article, Colonel, do you believe that that potential risk is one that the hearing conservation community is aware of?	2 3 4 5 6 7 8 9 10	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009? MR. CICCONE: 2009. (Exhibit 20 marked) Q. (BY MR. CICCONE) And, Colonel, have you ever seen the 2009 NIOSH alert? A. Yes.
2 3 4 5 6 7 8 9 10 11	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Okay. And this potential risk that Murphy talks about in his 2008 article, Colonel, do you believe that that potential risk is one that the hearing conservation community is aware of? MR. GONZALEZ: Objection, form.	2 3 4 5 6 7 8 9 10 11 12	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009? MR. CICCONE: 2009. (Exhibit 20 marked) Q. (BY MR. CICCONE) And, Colonel, have you ever seen the 2009 NIOSH alert? A. Yes. Q. When do you recall first seeing it?
2 3 4 5 6 7 8 9 10 11 12 13	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Okay. And this potential risk that Murphy talks about in his 2008 article, Colonel, do you believe that that potential risk is one that the hearing conservation community is aware of? MR. GONZALEZ: Objection, form. THE WITNESS: Certainly.	2 3 4 5 6 7 8 9 10 11 12 13	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009? MR. CICCONE: 2009. (Exhibit 20 marked) Q. (BY MR. CICCONE) And, Colonel, have you ever seen the 2009 NIOSH alert? A. Yes. Q. When do you recall first seeing it? MR. GONZALEZ: Object to form.
2 3 4 5 6 7 8 9 10 11 12 13	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Okay. And this potential risk that Murphy talks about in his 2008 article, Colonel, do you believe that that potential risk is one that the hearing conservation community is aware of? MR. GONZALEZ: Objection, form. THE WITNESS: Certainly. Q. (BY MR. CICCONE) And, Colonel, do you agree	2 3 4 5 6 7 8 9 10 11 12 13	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009? MR. CICCONE: 2009. (Exhibit 20 marked) Q. (BY MR. CICCONE) And, Colonel, have you ever seen the 2009 NIOSH alert? A. Yes. Q. When do you recall first seeing it? MR. GONZALEZ: Object to form. THE WITNESS: Again, probably shortly
2 3 4 5 6 7 8 9 10 11 12 13 14 15	plugs don't fit correctly? MR. GONZALEZ: Objection, form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Do you agree with that? MR. GONZALEZ: Object to form. THE WITNESS: Yes, sir. Q. (BY MR. CICCONE) Okay. And this potential risk that Murphy talks about in his 2008 article, Colonel, do you believe that that potential risk is one that the hearing conservation community is aware of? MR. GONZALEZ: Objection, form. THE WITNESS: Certainly. Q. (BY MR. CICCONE) And, Colonel, do you agree that the hearing industry is also aware of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	THE WITNESS: I can't recall that. Q. (BY MR. CICCONE) The next paper I want to talk to you about, Colonel, is a 2009 NIOSH alert. We're going to go ahead and mark it. This is going to be No. 20. MR. GONZALEZ: Did you say 2009? MR. CICCONE: 2009. (Exhibit 20 marked) Q. (BY MR. CICCONE) And, Colonel, have you ever seen the 2009 NIOSH alert? A. Yes. Q. When do you recall first seeing it? MR. GONZALEZ: Object to form. THE WITNESS: Again, probably shortly after publication.
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Page 82
                                                                                                            Page 84
1 tagged it for you. Page 19 of the NIOSH alert
                                                               agree with that statement. A shooter could very well
2 states, "All workers and shooters should be required
                                                            2
                                                               be safe by wearing earplugs.
3
   to use dual hearing protection devices (earmuffs and
                                                            3
                                                                  Q. (BY MR. CICCONE) Well, if that's true,
4
    earplugs) when the range is in use."
                                                            4
                                                               Colonel, then why would NIOSH require that employees
5
                                                            5
             Did I read that correctly?
                                                               and shooters wear dual hearing protection?
6
       A. I don't know. I can't see that far, sorry.
                                                            6
                                                                        MR. GONZALEZ: Objection, form.
7
             It looks like you did, yes.
                                                            7
                                                                        THE WITNESS: For the employer to
8
       Q. Okay. And are there different kinds of
                                                               protect themselves. They're supposed to be
9
    NIOSH publications? For example, this one is called
                                                            9
                                                               protecting their employees, and that's their
10
    an alert. Is there a difference between an alert and
                                                           10
                                                                requirement. And so passing that on to the employees
                                                           11
                                                                to wear their PPE, wear double PPE, is probably why
11
    some other kind of publication?
12
       A. There likely is, and I'm not the expert in
                                                           12
                                                                "required" is used there.
                                                           13
                                                                   Q. (BY MR. CICCONE) Okay. I didn't quite
13
    their various kind of communications. But it appears
14
                                                           14
    this was a result of what was called a health hazard
                                                                understand who you think is being protected. Is it
15
    evaluation, where someone has requested that NIOSH
                                                           15
                                                                the employer that's being protected, or the employee
                                                           16
                                                                that's actually exposed to the impulsive noise on the
16
    come in and do an assessment, in this case for lead
                                                           17
                                                                firing range?
17
    exposure and noise exposure in an indoor firing
                                                           18
18
    range.
                                                                   A. Yes, both. The employer is required to
                                                           19
                                                                protect their employee. And so in order to protect
19
       Q. Did you play role at all in the NIOSH
20
    investigation or assessment of that condition?
                                                           20
                                                                themselves as an employer and say, yes, I am
21
       A. No, sir.
                                                           21
                                                                protecting my employees, they have safety rules that
22
       Q. Okay. You never talked to anybody about
                                                           22
                                                                say you need to wear double protection to make sure
23
    the investigation or provided any input whatsoever?
                                                           23
                                                                that their employees are safe.
24
                                                           24
                                                                   Q. Did you discuss that alert with any of your
       A. No, sir.
25
       Q. Okay. Were you aware that the
                                                           25
                                                                colleagues at Sperian?
                                                 Page 83
                                                                                                            Page 85
    investigation was underway?
                                                                   A. I can't say that I did.
2
       A. No, sir.
                                                            2
                                                                         MR. GONZALEZ: Object to form.
3
       Q. Okay. And the line that I read that, "All
                                                            3
                                                                   Q. (BY MR. CICCONE) Do you know if any of your
4
    workers and shooters should be required to wear dual
                                                            4
                                                               colleagues at Sperian had a copy of this alert?
                                                            5
5
    hearing protection devices," what significance, if
                                                                        MR. GONZALEZ: Object to form.
6
    any, do you attach to the word "required"?
                                                            6
                                                                         THE WITNESS: I don't know.
7
             MR. GONZALEZ: Objection, form.
                                                            7
                                                                   Q. (BY MR. CICCONE) Do you recall discussing
8
             THE WITNESS: My guess in this context
                                                            8
                                                               the alert with any of your colleagues at Sperian with
9
    is that it is advising the employer, in this case I
                                                            9
                                                               regard to selling earplugs to people that they knew
10
    assume the range operator, that that would be a good
                                                           10
                                                                would be in a shooting range?
11
    policy, a policy recommendation to have.
                                                           11
                                                                         MR. GONZALEZ: Object, form.
12
        Q. (BY MR. CICCONE) But the guestion is: Why
                                                           12
                                                                         THE WITNESS: No, sir.
13
    would NIOSH suggest that employers require workers
                                                           13
                                                                   Q. (BY MR. CICCONE) Okay. But I thought you
14
    and shooters to wear dual protection, as opposed to
                                                           14
                                                                were a hearing conservative manager there --
    simply giving them an option to do so?
15
                                                           15
16
              MR. GONZALEZ: Object to form.
                                                           16
                                                                   Q. -- whose role was to try to educate people
17
              THE WITNESS: Employers are required
                                                           17
                                                                on the safe use of hearing protectors.
                                                           18
18
    by law to keep their employees safe, and so most
                                                                         And explain to me, if that was your
19
    safety standards have requirements for personal
                                                           19
                                                                role at Sperian and if you knew that Sperian was
20
    protective equipment.
                                                           20
                                                                selling these earplugs, well tell me why you would
21
        Q. (BY MR. CICCONE) Would a shooter not be
                                                           21
                                                                not have communicated to Sperian NIOSH's alert that
22
                                                           22
                                                                workers and shooters should be required to wear
    safe by simply wearing earplugs?
23
              MR. GONZALEZ: Object to form.
                                                           23
                                                                double hearing protection. Why wouldn't you have
```

24

25

done that?

MR. GONZALEZ: Objection, form.

THE WITNESS: The way you state that,

"Would a shooter not be safe," that's not -- I don't

24

25

	March U		
1	Page 86 THE WITNESS: Because that's a that	1	Page 88 MR. GONZALEZ: Objection, form.
2	was from a health hazard assessment for a specific	2	THE WITNESS: Again, just to ensure
3	environment. So I'm not sure why I would what	3	safety. My guess is that document is a sequella of
4	would be gained for me to be required to say that	4	the document that you talked about before. It's
5	specific thing. I don't know.	5	taking it into a different format.
6	I don't see that as it has an alert	6	Q. (BY MR. CICCONE) Right. It's about a year
7	on it, but it doesn't seem like an alarmist thing for	7	apart or so.
8	NIOSH to recommend to people to be extra safe.	8	Okay. Colonel, do you remember the
9	MR. CICCONE: Colonel, there's a 2010	9	first time you ever saw this document?
10	NIOSH paper. Let's me go ahead and mark this one as	10	A. I, frankly, don't remember seeing that
11	Exhibit No. 21.	11	document.
12	(Exhibit 21 marked)	12	MR. GONZALEZ: Exhibit 21?
13	Q. (BY MR. CICCONE) This is a January 2010	13	MR. CICCONE: 21.
14	publication that was authored by	14	THE WITNESS: 21.
15	A. Yeah, sometimes the NIOSH documents don't	15	Q. (BY MR. CICCONE) Colonel, there was a 2010
16	have authors.	16	conference that was in Orlando, Florida that was in
17	Q. No, this one does. And it's This	17	February of 2010, and it was put on by The National
18	document was prepared by a gentleman named Kardous,	18	Hearing Conservation Association. Were you the
19	K-A-R-D-O-U-S. Do you know that gentleman?	19	president of that association at the time that that
20	A. I do know him.	20	conference was put on?
21	Q. Okay. Is he an audiologist, a hearing	21	A. 2010, I don't think so.
22	conservation specialist like you are?	22	Q. Okay. But you were certainly a member?
23	A. He's an industrial hygienist, I believe.	23	A. Yes.
24	Q. Okay. But in any event, do you know if he	24	Q. Okay. Do you remember attending that
25	works for NIOSH or did at that time?	25	conference?
		1	
+	Page 87		Page 89
1	A. He did.	1	A. Yes.
2	A. He did. Q. And the title to this workplace solutions	2	A. Yes.Q. Did you speak at that conference?
2 3	A. He did. Q. And the title to this workplace solutions document is, "Reducing Exposure to Lead and Noise at	2 3	A. Yes.Q. Did you speak at that conference?A. I don't remember that.
2 3 4	A. He did. Q. And the title to this workplace solutions document is, "Reducing Exposure to Lead and Noise at Indoor Firing Ranges". Do you see where I've read	2 3 4	A. Yes.Q. Did you speak at that conference?A. I don't remember that.(Exhibit 5 marked)
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	March U	ά,	2020 90 to 93
4	Page 90	1	Page 92
1	produce later if it's not already on the thumb drive because it's it was too voluminous to try to	1 2	hearing conservation team worked at creating those slides together, so yes.
2	•	3	
3	include in the deposition, but I will if I have to later.	4	Q. (BY MR. CICCONE) The reason I'm asking you
4			these questions is that the earplugs that are in
5	A. Okay.	5	issue in this case and this is an exemplar box of
6	Q. But, Colonel, one of the there's a	6	these Shooters Earplugs that we've used in several of
7	number of pages that I've included in this exhibit.	7	these depositions, and I've got some photographs that
8	But the one that I want to draw your attention to is	8	we'll refer to later and include in the transcript.
9	the page that's entitled, "Dual Protection". Do you	9	But the text on the box says,
10	see this page?	10	"Shooters Earplugs, ideal for shooting sports."
11	A. I do.	11	MR. GONZALEZ: The portions you read
12	Q. Okay. And the text reads, "For extreme	12	you're saying, right?
13	noise environment dual protection is often	13	MR. CICCONE: Yes.
14	recommended." And, of course, you agree with that	14	MR. GONZALEZ: Okay.
15	statement, do you not?	15	THE WITNESS: I don't see where it
16	A. I do.	16	says, "Ideal for shooting sports."
17	Q. Okay. And then it talks about estimating	17	Q. (BY MR. CICCONE) It's real It's right
18	the protected noise level by adding the 5 decibels to	18	there, Colonel. It's the third line one, two,
19	the noise reduction rating for the highest rated	19	three.
20	hearing protection devices, which is what you	20	A. Yeah, down the bullet.
21	explained earlier?	21	Q. "Shooters Earplugs, ideal for shooting
22	A. Yes.	22	sports." And tell me, Colonel, are you familiar at
23	Q. Okay. And then it gives the potential NRR,	23	all with that product?
24	and it happens to be very close to the example that	24	A. I am, yes.
25	you and I had discussed earlier.	25	Q. Okay. And did you know when Honeywell
	Page 91		Page 93
1	But my question is: That at least as	1	began to market that product?
2	But my question is: That at least as of 2010, do you agree with me that Honeywell, your	2	began to market that product? A. I do not. Most of the work that I did with
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94 to 97

Page 96 Page 94 testified that you went to work for Sperian in 2008. Hearing Conservation Association, or Murphy, or any 2 A. Yes. of the other people that we've talked about 3 Q. And I think we talked about Honeywell 3 recommending that dual hearing protection is 4 buying Sperian about 2010. 4 necessary or required to protect somebody from 5 A. Yes. 5 firearm's noise in an indoor range? 6 Q. Okay. So do I understand that when you 6 Does it say anything on the box about 7 were working for Sperian, that you were aware that 7 that? Sperian was selling the Shooters Earplugs that are --8 MR. GONZALEZ: Object to form. 9 an exemplar box of which is there in your hand? THE WITNESS: No. 10 A. It would not have been branded by Honeywell 10 (Exhibit 6 marked) 11 Q. (BY MR. CICCONE) Let me hand you Exhibit 11 at the time. 12 Q. Well, obviously. 12 No. 6, Colonel, that I believe is a paper that you published in publication called Soldier 13 A. It would have said Sperian. 13 Modernisation? 14 Q. It probably would have said Howard Leight 14 because that's the trademark? 15 A. Yes. 15 16 A. Yes. 16 Q. And I believe, Colonel, that you published 17 17 this paper in 2013, and the title is, "New Research Q. Okay. Colonel, we talked about the Murphy Shows Firearms Users How to Keep Their Hearing Safe.' paper, the NIOSH alert, the NIOSH paper. We've even 18 18 19 talked about your PowerPoint all relating to dual 19 Do you remember publishing that paper? 20 20 hearing protection to protect somebody from impulsive A. I do, yes. 21 noise from firearms. 21 Q. And it's even got Honeywell's name on the 22 22 My question is: Did you ever talk to first page? 23 anybody at Sperian about selling Shooters Earplugs 23 A. Yes, sir. 24 that are ideal for shooting sports when you knew that 24 Q. And when you published that paper, 25 double hearing protection was recommended to protect 25 obviously, you were the hearing conservation manager Page 95 Page 97 a shooter from impulsive noise from firearms? for Honeywell? 2 MR. GONZALEZ: Objection, form. 2 A. Yes. 3 THE WITNESS: Yeah. The way you asked 3 Q. Okay. So, obviously, Honeywell was aware 4 the question, I'm not sure what you're getting at, of what you were doing and what papers you were 5 5 but let me answer as best I can. publishing? 6 The recommendations for double 6 A. Yes. 7 7 protection are, as we've spoken about, that sort of Q. Did somebody have to review that paper and 8 extra safety. A well-fit foam earplug is certainly 8 approve it before you submitted it for publication? 9 adequate for most recreational firearms. 9 A. Yes. 10 10 Q. (BY MR. CICCONE) And, Colonel, we talked Q. Who would that have been? 11 about this risk that an improperly properly earplug 11 A. A marketing person at the time, and I don't 12 would not provide the attenuation that a properly fit 12 remember who it was. Q. How many marketing people would Honeywell 13 13 earplug would provide. 14 But do you see anything on the box 14 have had that would have had to review your work? that talks about the risks that an improperly fit 15 MR. GONZALEZ: Object to form. 15 16 earplug will not provide the required attenuation? 16 THE WITNESS: At that time? 17 A. There's information, a caution on the back 17 Q. (BY MR. CICCONE) Yes. This is 2013. 18 of the box. 18 THE WITNESS: Yeah. 19 Q. Right. And it does say that it's 33 NR if MR. GONZALEZ: Object to form. 19 20 properly worn or if used properly or something along 20 THE WITNESS: There was usually one those lines? 21 21 marketing person who reviewed. But that marketing 22 22 A. Something along those lines. person changed over time. 23 Q. But the question really is, Colonel, if the 23 Q. (BY MR. CICCONE) Why would a marketing 24 24 box says, "Shooters Earplugs, ideal for shooting person at Honeywell have to review a paper that you

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sports," does it say anything about NIOSH, or the

25

would have submitted for publication on hearing

98 to 101

1 protection? 2 MR. GONZA			
-	Page 98	. ^	Page 100
	LEZ: Object to form. 2		And I'm citing their recommendation. And you sure are. And that would have been
	SS: Honeywell's policy is		oh, five years after Murphy published the
	nings, the marketing people 4		that you and I have discussed earlier where he
	awyers have to review it.		vestigated the SWAT team and the exposure to
· ·	awyers have to review it.		earms noise, and was recommending double
6 They have a process. 7 Q. (BY MR. CICC			_
	ONE) Did you get any feedback 7		g protection in 2008. Am I right or wrong? That's correct.
_ ·	rson about the content of the 8 ed to submit for publication?		
1	·		So is there any dispute that Honeywell was
	LEZ: Object to form.		e, at least as of 2013, that NIOSH was
	SS: I do not recall		mending double hearing protection to protect
	the marketing people often 12		ers from firearms noise on indoor ranges?
	t the grammatical corrections 13		MR. GONZALEZ: Object to form.
14 and things like that.	20NE) And I noticed that your		THE WITNESS: So the form you ask, is
,	CONE) And I noticed that your		well aware? You know, Honeywell is a big
16 coauthor was William	• •	-	any. So yes, we yes.
17 A. Yes, sir.	the grantlement where we		(BY MR. CICCONE) Well, you were certainly
	the gentleman whom we		
	published a lot of things, and		I was aware. I was.
20 he was at NIOSH, and	•		And you worked with Honeywell at the time?
21 A. Yes.	f Murphy is still working or		Yes, yes.
22 Q. Do you know i 23 is he retired?	f Murphy is still working, or 22		And this marketing person, and whatever
23 is the retired?	23	•	Other people.
24 A Ho'c still thoro	Z'	4 4.	Other people.
24 A. He's still there	one of the things that you		reviewed that publication, you agree
	one of the things that you 25		reviewed that publication, you agree
25 Q. And, Colonel,	one of the things that you Page 99 t NIOSH recently published 1	5 Q.	Page 101
Q. And, Colonel,say in this paper is that	Page 99	5 Q.	, , , , ,
25 Q. And, Colonel, 1 say in this paper is tha 2 recommendations to re	Page 99 t NIOSH recently published 1	they w	Page 101 ere certainly aware?
25 Q. And, Colonel, 1 say in this paper is tha 2 recommendations to re 3 noise, and then you cit	Page 99 t NIOSH recently published 1 educe exposure to both lead and 2	they w	Page 101 Yes.
25 Q. And, Colonel, 1 say in this paper is tha 2 recommendations to re 3 noise, and then you cit 4 using both earplugs ar	Page 99 t NIOSH recently published 1 educe exposure to both lead and 2 e the paper. They recommend 3	5 Q. they we A. Graph	Page 101 ere certainly aware? Yes. MR. GONZALEZ: Object to form.
25 Q. And, Colonel, 1 say in this paper is tha 2 recommendations to re 3 noise, and then you cit 4 using both earplugs an 5 to keep peak exposure	Page 99 t NIOSH recently published 1 educe exposure to both lead and 2 e the paper. They recommend 3 d earmuffs as double protection 4	they was 2. A. B. Q. paper l	Page 101 Page 101 Yes. MR. GONZALEZ: Object to form. (BY MR. CICCONE) Colonel, let's the next
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25 Q. And, Colonel, 1 say in this paper is tha 2 recommendations to re 3 noise, and then you cit 4 using both earplugs an 5 to keep peak exposure 6 eight-hour time weight 7 And then it goes on.	Page 99 t NIOSH recently published educe exposure to both lead and e the paper. They recommend d earmuffs as double protection levels below 140 decibels in ed average below 85 decibels.	they were second of the second	Page 101 ere certainly aware? Yes. MR. GONZALEZ: Object to form. (BY MR. CICCONE) Colonel, let's the next want to discuss with you, it's a 2017 paper. Let me mark this one.
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25 Steward, Deanna Meinke, M-E-I-N-K-E, a William

25 four years after that alert had come out?

	March 0	T ,	2020 102 to 105
1	Page 102 Murphy.	1	Page 104
2	Okay. Do you know Steward or Meinke?	1 2	again, and a number of other people that can I presume that you know all these people, or you
3	A. I do.	3	associated with them at different times in your
4	Q. Are these people that are part of this	4	career?
5	hearing conservation community	5	A. I know all except the last one.
6	A. They are.	6	And, yes, that's who we referred to as
7	Q that you're a member of?	7	a Rudyard gang in that other article that I wrote.
8	Okay. And are they widely published,	8	Q. The Rudger gang?
9	widely known within the community	9	A. Yes.
10	A. They are.	10	Q. How do you spell that?
11	Q that you're in?	11	A. R-U-D-Y-A-R-D.
12	And one of the things that they say	12	Q. Rudyard?
13	this is going to be on page 5, where they say, "Dual	1	A. Rudyard, Michigan. They actually go to
14	hearing protection, earplugs plus earmuffs, will	14	Rudyard, Michigan to do research on these firearm
15	provide the greatest protection."	15	exposures.
16	Do you see where I read that?	16	Q. Who does that research there?
17	A. Yes.	17	A. That group of people that I cite in the
18	Q. Do you agree with that statement?	18	articles.
19	A. Yes.	19	Q. Do you know who sponsors that research?
20	Q. And it's not could provide, may provide,	20	MR. GONZALEZ: Object to form.
21	but it says, "it will provide the greatest	21	THE WITNESS: I I in the
22	protection." Do you agree?	22	"sponsor" can mean a lot of different things
23	MR. GONZALEZ: Object to form.	23	Q. (BY MR. CICCONE) Who pays for that
24	THE WITNESS: I might edit to say	24	research?
25	"could", but it's their paper.	25	MR. GONZALEZ: Object to form.
		1	
	Page 103		Page 105
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2	Q. (BY MR. CICCONE) And when that paper came out, Colonel, were you still working for Honeywell?	2	THE WITNESS: I don't know. Q. (BY MR. CICCONE) Do you know if Honeywell
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. (BY MR. CICCONE) And when that paper came out, Colonel, were you still working for Honeywell? A. In 2017, yes. Q. Because you left in 2019? A. Right. Q. Do you recall ever discussing this publication with any of your colleagues at Honeywell? MR. GONZALEZ: Object to form. THE WITNESS: By 2017, I had changed roles within Honeywell and become a global training manager for all of our PPE. So I was not focusing specifically on the hearing conservation at that time. Although I read that as a professional document that I read, I don't recall specifically talking to anybody at Honeywell about it. It's possible I did. Q. (BY MR. CICCONE) Fair enough. The next paper, Colonel, is it's another 2017 paper. MR. CICCONE: I'm going to mark this as Exhibit 23.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	THE WITNESS: I don't know. Q. (BY MR. CICCONE) Do you know if Honeywell either pays for or participates with that research? MR. GONZALEZ: Object to form. THE WITNESS: I know they do not. Q. (BY MR. CICCONE) You know for a fact that they do not? A. I know for a fact they do not. Q. How do you know for a fact that they do not? A. I think as an employee I would have known had they done it. We tried to get them to sponsor a lot of NHCA activities, and they were reluctant to do that. Q. Why, budget? Other reasons? MR. GONZALEZ: Object to form. THE WITNESS: Budget. Q. (BY MR. CICCONE) And, Colonel, there's on page 276 of this this article that we're discussing, the author is saying and I'll read it "Dual hearing protection", in parentheses, (earplugs, earplugs worn in combination with a

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Page 106
                                                                                                           Page 108
       A. I do.
                                                               earplugs that are at issue in this case, it says that
1
2
       Q. And actually, there's a footnote, footnote
                                                              they are the USA Shooting Team official supplier. Do
3
   76, and it happens to be the Murphy article that we
                                                              you see that?
4
    had discussed earlier that was published in 2007,
                                                           4
                                                                  A. I do.
5
                                                           5
                                                                  Q. Okay. When you were still at Honeywell, do
    2008. Okay. Do you agree with that statement?
6
             MR. GONZALEZ: Objection to form.
                                                              you know if Honeywell was the official supplier of
7
             THE WITNESS: The physics of hearing
                                                           7
                                                               the USA Shooting Team?
8
    protection makes that true.
                                                           8
                                                                        MR. GONZALEZ: Objection, form.
                                                                        THE WITNESS: At some point in time,
9
       Q. (BY MR. CICCONE) And, again, I don't want
                                                           9
10
    to quibble, but dual hearing protection provides the
                                                           10
                                                               we were.
                                                           11
                                                                  Q. (BY MR. CICCONE) And do you know what in
11
    greatest protection. Not that it will or not that it
12
    should. Not that it could. Not that it may. They
                                                           12
                                                               particular Honeywell supplied to the team?
                                                           13
    seem to be, it's unconditional. It does provide the
                                                                  A. I do not.
13
                                                           14
                                                                  Q. Did you ever consult with any team members
14
    greatest protection.
15
                                                           15
                                                               with respect to the type of hearing protection that
              Do you agree with my interpretation of
                                                               the team members should wear while shooting firearms?
                                                           16
16
    that?
                                                           17
17
                                                                  A. No, I did not.
              MR. GONZALEZ: Objection, sidebar and
                                                           18
                                                                  Q. Do you know, Colonel, whether, in fact,
18
    form.
                                                           19
                                                               Honeywell is the official supplier to the USA
19
              THE WITNESS: I do not because I can
20
    think of an exception.
                                                           20
                                                               Shooting Team?
        Q. (BY MR. CICCONE) What exception can you
21
                                                          21
                                                                        MR. GONZALEZ: Currently?
                                                           22
                                                                        MR. CICCONE: Currently.
22
    think of?
23
        A. If you don't wear an earplug well at all,
                                                           23
                                                                        MR. GONZALEZ: Object to form.
24
    and you are only wearing the earmuff, and that's
                                                           24
                                                                        THE WITNESS: I don't know.
25
    what's providing the big amount of protection for
                                                           25
                                                                  Q. (BY MR. CICCONE) Do you know when the last
                                               Page 107
                                                                                                           Page 109
                                                               time Honeywell was the official supplier for the USA
    you, you're likely to be getting less protection than
   you would if you had a well-fit foam earplug and a
                                                           2
                                                               Shooting Team?
3
   muff on top of it.
                                                           3
                                                                        MR. GONZALEZ: Object to form.
4
       Q. I understand that. But we've discussed
                                                           4
                                                                        THE WITNESS: I do not.
                                                           5
                                                                  Q. (BY MR. CICCONE) Do you know, Colonel, if
5
   earlier that if, for whatever reason, the plug is not
6
    fitting correctly, you agree that you will get at
                                                           6
                                                               the USA Shooting Team recommends that its team
7
                                                           7
                                                               members use Honeywell hearing protection equipment?
    least some attenuation from wearing the muff?
8
       A. I do agree.
                                                           8
                                                                        MR. GONZALEZ: Object to form.
9
             THE VIDEOGRAPHER: Excuse me, sir. We
                                                           9
                                                                        THE WITNESS: I do not.
                                                           10
10
    have less than five minutes left.
                                                                         As I mentioned, most of my work was on
        Q. (BY MR. CICCONE) Okay. Let me talk one
11
                                                           11
                                                                the industrial side, and this is on the retail side.
12
    more -- let me see if we have another video.
                                                           12
                                                                So I don't know that level of detail.
13
              Colonel, do you know what the USA
                                                           13
                                                                       (Discussion off the record)
14
    Shooting Team does? Have you ever heard of that
                                                           14
                                                                         THE VIDEOGRAPHER: Time now is
15
    organization?
                                                           15
                                                                4:16 p.m. We are off the record.
                                                           16
                                                                         (Recess from 4:16 p.m. to 4:28 p.m.)
16
       A. I have heard of them.
                                                           17
                                                                        THE VIDEOGRAPHER: The time now is
17
       Q. Do you know what that organization does?
              MR. GONZALEZ: Object to form.
                                                           18
                                                               4:28 p.m. We back book on the record.
18
                                                           19
19
              THE WITNESS: I don't know a lot of
                                                                          (Exhibit 7 marked)
20
    detail about them, but I'm met a couple of them one
                                                           20
                                                                   Q. (BY MR. CICCONE) Colonel, before the break,
21
    time.
                                                           21
                                                               we were talking a little bit about this USA Shooting
22
        Q. (BY MR. CICCONE) Are these people that are
                                                           22
                                                               Team, and I want to direct your attention to a safety
23
    training to go to the Olympics, or do you know?
                                                           23
                                                               video that the team publishes on its website. And
24
                                                           24
       A. I believe they are.
                                                               Exhibit No. 7, for the benefit of counsel, is a copy
25
        Q. Because, Colonel, the package of Honeywell
                                                               of the webpage, and it's got the link to the safety
```

110 to 113

Page 110 Page 112 pistol shooting, and rifle shooting, and shotgun video. 1 2 A. Okay. shooting. And we did that for a weekend and 3 Q. And they say that this safety video was 3 basically fundraised for the National Shooting Sports 4 produced by the National Shooting Sports Foundation. 4 Foundation. 5 5 Are you familiar at all with that organization? Q. And what year do you think you went to that 6 A. Iam. 6 event? 7 Q. And I've seen you cite that organization in 7 A. It was probably -a couple of the publications. And tell me what your 8 MR. GONZALEZ: Object to form. 9 association is or your familiarity with that 9 THE WITNESS: Probably -- and I don't 10 organization may be. 10 remember -- maybe 2011 or somewhere around there. 11 11 A. Probably twofold. The National Shooting Q. (BY MR. CICCONE) Okay. And you said that 12 Sports Foundation is -- I guess you would call them a 12 Howard Leight had a shooting team. You mean Howard 13 13 Leight, the inventor or businessman, or Howard trade association. 14 Q. I think that's how they characterize 14 Leight, the product --15 themselves, as a trade association for the firearms A. Howard Leight, the product. Yes. 15 Q. So that would have been Honeywell had a 16 16 industry. A. Yes. 17 17 shooing team? 18 A. Correct. 18 Q. Okay. And tell me, they're based out of 19 19 Connecticut? Q. Okay. 20 A. I don't know where they are based out of. 20 A. And the second thing I had to do with them 21 21 at all was -- again, most of my work for Honeywell I access them online, or, you know, through seeing 22 their booths at events or something like that. 22 was on the industrial side of things, but on rare 23 But, yeah, trade associations of the 23 occasions, the retail side would invite us to come 24 24 companies that have anything to do with firearms. over and help. 25 25 And so I went to a SHOT Show, which is Q. Do you know if Honeywell is a member of the Page 111 Page 113 associations? a huge trade show that they have once a year for all 2 MR. GONZALEZ: Object to form. of the shooting sports businesses, and provided some 3 THE WITNESS: The retail side of education to range operators and anybody who, you 4 Howard Leight, at least was at the time. You know, 4 know, would come listen to our training about Howard Leight and their new earmuff product that they had, I'm not a Honeywell employee now, so I can't tell you 5 5 6 whether they are now. But they were a member when I 6 and how to protect yourselves, that sort of thing. 7 7 Q. What year do you think you went to that was at Honeywell, yes. 8 Q. (BY MR. CICCONE) And you left Honeywell in 8 trade show? 2019? 9 9 MR. GONZALEZ: Object to form. 10 THE WITNESS: I, again, don't remember 10 A. Yes. years but it would be somewhere around maybe 2013 or 11 Q. And you were with Honeywell from about 2010 11 12 until about 2019? 12 '14, maybe. 13 A. 2008, yes. 13 Q. (BY MR. CICCONE) Okay. And that would have 14 Q. And while you were at Honeywell, did you 14 been -- would that have been after you published the 15 ever go to any National Shooting Sports Foundation 15 article in Soldier Modernisation recognizing that NIOSH recommended double hearing protection for 16 events? 16 17 A. Yes. 17 shooters? 18 18 Q. Okay. What events did you attend? A. I don't remember which was first or second. 19 19 A. The first event was, again, as a member of Q. And it certainly would have been after 20 the association. Howard Leight had a shooting team 20 NIOSH's alert of 2009 recommending that employers require that workers and shooters on indoor ranges 21 that went to a fundraising weekend that the National 21

22

23

24

wear double hearing protection?

Q. And, Colonel, you say that you spoke at

that conference on educational issues. I guess those

A. It is after that date.

22

23

24

25

Shooting Sports Foundation hosted.

And I actually was chosen to be on the

shooting team for that weekend, and so I got to go to

Kentucky to this really cool place where they had

	Dogo 114		Dags 116
1	Page 114 included hearing conservation?	1	protection?
2	A. Yes.	2	A. Yes.
3	Q. And give me a snapshot of the content of	3	Q. Okay. Colonel, I want to I want to play
4	your address to the group, if you can remember.	4	a short clip from this safety video that is linked on
5	MR. GONZALEZ: Object to form.	5	the National USA Shooting Team video, and it's
6	THE WITNESS: I really don't remember.	6	apparently produced by the National Shooting Sports
7	I'd have to look at slides, but the message in	7	Foundation. And you told us your experiences with
8	general was to wear hearing protection whenever	8	that group.
9	you're exposed to recreational firearms. And I	9	It's a long video, and I only want to
10	answered questions from the audience that were,	10	show you a very short clip. And the clip begins at
11	again, mostly range operators.	11	about two minutes into the video. And I produced the
12	Q. (BY MR. CICCONE) Do you recall discussing	12	entire video on a flash drive.
13	the notion of wearing double hearing protection on a	13	MR. GONZALEZ: You're getting it?
14	firing range?	14	Q. (BY MR. CICCONE) Ready?
15	MR. GONZALEZ: Object to form.	15	A. Uh-huh.
16	THE WITNESS: I don't recall. But	16	Q. What I'm going to do, I'm going to fast
17	it's possible that I did.	17	forward this because I don't want to
18	Q. (BY MR. CICCONE) And you said you had	18	(Exhibit 8 marked)
19	slides, so do you know where those slides are?	19	(Video playing)
20	A. No. And I don't have a Honeywell computer	20	Q. (BY MR. CICCONE) First of all, do you know
21	anymore, so	21	this person who is giving this address?
22	Q. Do you think Honeywell may still have a	22	A. I do not.
23		23	
24	copy of your presentation? MR. GONZALEZ: Object to form.	24	Q. Have you ever seen her before?A. No.
25	THE WITNESS: I have no idea.		
25	THE WITNESS. Thave no idea.	25	(Video playing)
		l .	
	Page 115		Page 117
1	Q. (BY MR. CICCONE) When was the last time you	1	Q. (BY MR. CICCONE) Let me stop it there. Do
2	Q. (BY MR. CICCONE) When was the last time you saw that presentation?	2	Q. (BY MR. CICCONE) Let me stop it there. Do you see where she's wearing the earmuffs?
2 3	Q. (BY MR. CICCONE) When was the last time you saw that presentation?A. Probably	2	Q. (BY MR. CICCONE) Let me stop it there. Do you see where she's wearing the earmuffs? A. Yes.
2 3 4	 Q. (BY MR. CICCONE) When was the last time you saw that presentation? A. Probably MR. GONZALEZ: Objection to form. 	2 3 4	Q. (BY MR. CICCONE) Let me stop it there. Do you see where she's wearing the earmuffs?A. Yes.Q. Do you have any concerns about how she's
2 3 4 5	Q. (BY MR. CICCONE) When was the last time you saw that presentation? A. Probably MR. GONZALEZ: Objection to form. THE WITNESS: when I gave it.	2 3 4 5	Q. (BY MR. CICCONE) Let me stop it there. Do you see where she's wearing the earmuffs?A. Yes.Q. Do you have any concerns about how she's wearing those earmuffs?
2 3 4 5 6	 Q. (BY MR. CICCONE) When was the last time you saw that presentation? A. Probably MR. GONZALEZ: Objection to form. THE WITNESS: when I gave it. Q. (BY MR. CICCONE) Did you just give it one 	2 3 4 5 6	 Q. (BY MR. CICCONE) Let me stop it there. Do you see where she's wearing the earmuffs? A. Yes. Q. Do you have any concerns about how she's wearing those earmuffs? MR. GONZALEZ: Objection, form.
2 3 4 5	Q. (BY MR. CICCONE) When was the last time you saw that presentation? A. Probably MR. GONZALEZ: Objection to form. THE WITNESS: when I gave it. Q. (BY MR. CICCONE) Did you just give it one time, or did you give it more than once?	2 3 4 5 6 7	 Q. (BY MR. CICCONE) Let me stop it there. Do you see where she's wearing the earmuffs? A. Yes. Q. Do you have any concerns about how she's wearing those earmuffs? MR. GONZALEZ: Objection, form. THE WITNESS: I would prefer her to
2 3 4 5 6 7 8	Q. (BY MR. CICCONE) When was the last time you saw that presentation? A. Probably MR. GONZALEZ: Objection to form. THE WITNESS: when I gave it. Q. (BY MR. CICCONE) Did you just give it one time, or did you give it more than once? A. I think we might have had several sessions	2 3 4 5 6 7 8	Q. (BY MR. CICCONE) Let me stop it there. Do you see where she's wearing the earmuffs? A. Yes. Q. Do you have any concerns about how she's wearing those earmuffs? MR. GONZALEZ: Objection, form. THE WITNESS: I would prefer her to sweep her hair back when she puts the earmuffs on.
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Page 118
                                                                                                          Page 120
       A. Uh-huh.
                                                               firearm?
1
                                                           1
2
       Q. And that's the National Shooting Sports
                                                           2
                                                                  A. No.
3
   Foundation --
                                                           3
                                                                        MR. GONZALEZ: Object, form.
4
       A. Uh-huh.
                                                           4
                                                                  Q. (BY MR. CICCONE) Will a suppressor -- I'm
5
       Q. -- saying that they recommend double
                                                           5
                                                               sorry, what?
6
    hearing protection, the muffs and the plugs. Do you
                                                           6
                                                                  A. It was -- making sure it wasn't talked
7
    agree?
                                                           7
                                                               over.
8
             MR. GONZALEZ: Object to form.
                                                           8
                                                                        THE VIDEOGRAPHER: Excuse me, sir,
9
       Q. (BY MR. CICCONE) Yes?
                                                           9
                                                               could you clip on the microphone again?
       A. Yes.
                                                           10
10
                                                                         MR. CICCONE: Oh, sorry about that.
11
        Q. Would you agree the USA Shooting Team
                                                           11
                                                                   Q. (BY MR. CICCONE) Colonel, do you believe or
12
    recommends double hearing protection, the muffs and
                                                           12
                                                                have reason to believe that somebody who is using a
    the plugs, to the extent that it's citing that safety
                                                           13
                                                                suppressor should wear hearing protection --
13
                                                           14
14
    video on its website?
                                                                         MR. GONZALEZ: Objection, form.
15
                                                           15
                                                                   Q. (BY MR. CICCONE) -- in addition to relying
              MR. GONZALEZ: Objection, form.
             THE WITNESS: One would assume, yes.
16
                                                           16
                                                                upon the suppressor?
17
                                                           17
                (Exhibit 9 marked)
                                                                         MR. GONZALEZ: Objection, form.
                                                           18
18
       Q. (BY MR. CICCONE) Colonel, this package of
                                                                        THE WITNESS: Again, it's just one
                                                          19
19
    these Shooters Earplugs that we've been talking about
                                                                more level of protection.
20
    where they're ideal for the shooting sports, the USA
                                                           20
                                                                   Q. (BY MR. CICCONE) Colonel, when did you
21
    Shooting Team official supplier, Colonel, I know
                                                           21
                                                               first learn about the case that we're here to
                                                           22
22
    you're not a packaging expert, but you're certainly a
                                                                discuss?
23
    hearing conservation expert. And I want you to tell
                                                           23
                                                                  A. I want to say sometime maybe late 2017,
24
                                                           24
    me, if you can, do you see anything on that package
                                                               2018.
    of the Shooters Earplugs that discloses that NIOSH,
                                                           25
                                                                   Q. I don't want to -- okay. I don't want to
                                               Page 119
                                                                                                          Page 121
   the National Hearing Conservation Association, the
                                                               know what you may have discussed with legal counsel,
2
   National Sports Shooting Foundation, and the USA
                                                           2
                                                               but do you remember discussing the case with any of
3
   Shooting Team all recommend that shooters wear double
                                                           3
                                                               your colleagues or former colleagues at Honeywell?
4
    hearing protection? Do you see anything on the
                                                           4
                                                                  A. Yes.
5
                                                           5
    package?
                                                                        MR. GONZALEZ: Outside --
6
            MR. GONZALEZ: Objection, form.
                                                           6
                                                                  Q. (BY MR. CICCONE) Outside legal counsel.
7
            THE WITNESS: I do not.
                                                           7
                                                                        THE WITNESS: Oh, no.
8
       Q. (BY MR. CICCONE) Let me -- I'm going to
                                                           8
                                                                        MR. GONZALEZ: -- legal counsel.
   digress very briefly -- and this is going to be very
                                                           9
                                                                  Q. (BY MR. CICCONE) You didn't talk to anybody
    brief -- are you familiar with all the firearms
10
                                                           10
                                                               in Honeywell, including any of your colleagues,
11
    suppressors?
                                                           11
                                                                former colleagues, or anybody like that?
12
       A. I am.
                                                           12
                                                                   A. My colleague and I both spoke with Neil.
13
       Q. And are these sometimes called silencers?
                                                           13
                                                                         MR. GONZALEZ: Again --
14
       A. They are.
                                                           14
                                                                   Q. (BY MR. CICCONE) Okay. I don't want to
15
       Q. Okay. And I think most of us have seen
                                                           15
                                                                know what you talked to your lawyer about.
                                                           16
                                                                         MR. GONZALEZ: He's asking any
16
    James Bond and other heros in movies use a
                                                                meetings that you talked to anybody at Honeywell
17
    suppressor, but do you think that accurately reflects
                                                           17
18
    the noise attenuation that a suppressor or a silencer
                                                           18
                                                                where nobody from legal was there, meaning myself or
    will actually provide, or is it just Hollywood?
19
                                                           19
                                                                Mr. Sambursky or anybody from legal.
20
             MR. GONZALEZ: Objection, form.
                                                           20
                                                                        He's talking about non-privileged
21
             THE WITNESS: It does not
                                                           21
                                                                conversations.
                                                           22
22
    accurately -- most of the time does not accurately
                                                                        THE WITNESS: Yeah. None that I
23
    represent.
                                                           23
                                                               recall.
24
       Q. (BY MR. CICCONE) Okay. Will a suppressor
                                                           24
                                                                   Q. (BY MR. CICCONE) Colonel, other than legal
25
    completely eliminate or silence the noise from a
                                                               counsel, have you ever discussed this case with
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	Page 122		Page 124
1	anybody at Honeywell?	1	A. Yes.
2	A. Not that I recall.	2	MR. GONZALEZ: Counsel, can we the
3	Q. You talked about your colleague. Can you	3	one at issue for this case, I have no problem with
4	name your colleague?	4	just referencing it. Can we take a picture of the
5	A. I can.	5	other one that you're showing?
		-	-
6	Q. What's her name, his name?	6	(Exhibit 11 marked)
7	A. His name. Dr. Bob Ghent.	7	Q. (BY MR. CICCONE) We're going to use
8	Q. And he is a gentleman who works in San	8	Exhibit No. 9, Colonel, these are some photographs of
9	Diego?	9	these Shooters Earplugs that we've been talking
10	A. Yes, sir.	10	about. And you have an exemplar box there in front
11	Q. What's his title? Is he an audiologist?	11	of you.
12	A. He is an audiologist.	12	And then these MAXX Earplugs that
13	Q. Did Bob call you? Did you call him? How	13	we're currently talking about will be Exhibit No. 10.
14	did that conversation come about?	14	(Exhibit 10 marked)
15	 A. Bob and I were both contacted by 	15	MR. GONZALEZ: Thank you.
16	Mr. Sambursky, and we met with him, and he	16	Q. (BY MR. CICCONE) And you can just you can
17	explained	17	use the boxes if you don't want to look at the
18	MR. GONZALEZ: Don't talk to him	18	pictures. But do you recall whether or not Sperian
19	about	19	was selling those MAXX Earplugs when you first went
20	Q. (BY MR. CICCONE) We don't	20	to work for Sperian? That would have been about
21	MR. GONZALEZ: any conversations	21	2008.
22	with Mr. Sambur he's asking if you and Bob met	22	A. I do recall.
23	THE WITNESS: Talked outside of our	23	Q. Did you ever have any involvement with the
24	meetings with Neil?	24	marketing of that product, either with the marketing
25	MR. GONZALEZ: Right.	25	people, the labeling people, the people testing the
23	WIN. GONZALLZ. Night.	23	people, the labeling people, the people testing the
	_ 100	_	
	Page 123	١.	Page 125
1	THE WITNESS: Yeah.	1	earplugs? Did you have any involvement at all with
2	THE WITNESS: Yeah. Q. (BY MR. CICCONE) You didn't?	2	earplugs? Did you have any involvement at all with any of those people?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE WITNESS: Yeah. Q. (BY MR. CICCONE) You didn't? A. Not that I recall. Q. Okay. You never Do you have any way to get in touch with him, for example, his cell phone? Do you have an email address for him? A. I do. Q. Did you communicate with him either by cell phone or by email outside of the context of this conversation that you had or may have had with legal counsel? A. Not that I recall. (Exhibit 10 marked) Q. (BY MR. CICCONE) Let me talk to you a little bit, Colonel we've talked to you about these Shooters Earplugs. And I want to ask you I want to ask you if you're familiar at all with this other model. I think these are called MAXX Earplugs?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	earplugs? Did you have any involvement at all with any of those people? A. Let me explain that this is basically the same earplug in a different color. Q. I wanted to ask you that. And how do you know that, Colonel? A. Because I worked in Honeywell, and I know how they're produced. And it's the same form, and they just use different coloring in the mix to make the different product. And yeah. Q. Do you know where those products are manufactured? A. I do. Q. Where? A. San Diego. MR. GONZALEZ: The MAXX, you're saying?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: Yeah. Q. (BY MR. CICCONE) You didn't? A. Not that I recall. Q. Okay. You never Do you have any way to get in touch with him, for example, his cell phone? Do you have an email address for him? A. I do. Q. Did you communicate with him either by cell phone or by email outside of the context of this conversation that you had or may have had with legal counsel? A. Not that I recall. (Exhibit 10 marked) Q. (BY MR. CICCONE) Let me talk to you a little bit, Colonel we've talked to you about these Shooters Earplugs. And I want to ask you I want to ask you if you're familiar at all with this other model. I think these are called MAXX Earplugs? A. Uh-huh. Q. Are you familiar at all with that product line?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	earplugs? Did you have any involvement at all with any of those people? A. Let me explain that this is basically the same earplug in a different color. Q. I wanted to ask you that. And how do you know that, Colonel? A. Because I worked in Honeywell, and I know how they're produced. And it's the same form, and they just use different coloring in the mix to make the different product. And yeah. Q. Do you know where those products are manufactured? A. I do. Q. Where? A. San Diego. MR. GONZALEZ: The MAXX, you're saying? THE WITNESS: Both. Q. (BY MR. CICCONE) Oh, is there one factory that produces both, if you know?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: Yeah. Q. (BY MR. CICCONE) You didn't? A. Not that I recall. Q. Okay. You never Do you have any way to get in touch with him, for example, his cell phone? Do you have an email address for him? A. I do. Q. Did you communicate with him either by cell phone or by email outside of the context of this conversation that you had or may have had with legal counsel? A. Not that I recall. (Exhibit 10 marked) Q. (BY MR. CICCONE) Let me talk to you a little bit, Colonel we've talked to you about these Shooters Earplugs. And I want to ask you I want to ask you if you're familiar at all with this other model. I think these are called MAXX Earplugs? A. Uh-huh. Q. Are you familiar at all with that product line? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	earplugs? Did you have any involvement at all with any of those people? A. Let me explain that this is basically the same earplug in a different color. Q. I wanted to ask you that. And how do you know that, Colonel? A. Because I worked in Honeywell, and I know how they're produced. And it's the same form, and they just use different coloring in the mix to make the different product. And yeah. Q. Do you know where those products are manufactured? A. I do. Q. Where? A. San Diego. MR. GONZALEZ: The MAXX, you're saying? THE WITNESS: Both. Q. (BY MR. CICCONE) Oh, is there one factory that produces both, if you know? A. Yes.

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126 to 129

Page 126

1 factory?

2 A. To provide training to our salespeople was

3 one occasion.

4 To meet with my boss there for another

5 occasion.

- 6 To have business meetings --
- 7 Q. Your boss worked at the factory?
- A. My boss worked -- yeah, the same building,

9 yes.

- 10 Q. What was your boss's name?
- 11 A. Brad Witt.
- 12 Q. And Brad Witt has published a number of
- 13 papers on hearing conservation as well, has he not?
- 14 A. He has.
- 15 Q. Is he still at Honeywell; do you know?
- 16 A. He is not.
- 17 Q. He retired or gone somewhere else?
- 18 A. He retired.
- 19 Q. Okay. And so you say that you went to the
- 20 factory there in San Diego to discuss with groups
- 21 including the salespeople?
- 22 A. Yes.
- 23 Q. What discussions did you have with the
- 24 salespeople?

25

A. We provided the salespeople with training

Q. Do you know if the military, in fact, does

- 2 buy that earplug in bulk?
 - A. They do.
- Q. And do you know how long that the militaryhas been buying that MAXX Earplugs in bulk?
 - I do not know that.
 - Q. And when you were working for Honeywell, was the military buying the MAXX Earplugs from Honeywell in bulk?
 - A. Yes.
 - Q. Did you ever consult with any members of the military with respect to the expected uses of that MAXX Earplugs?

MR. GONZALEZ: Object to form.
THE WITNESS: That seems like a very

awfully broad question.

Q. (BY MR. CICCONE) Let me narrow it down.

Did you ever consult with any members
of the military with respect to what protection, if

any, that those MAXX Earplugs would provide to
 service people to attenuate impulse noise from

22 firearms?

A. Yes.

Q. What information did you provide them?MR. GONZALEZ: Object to form.

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- materials that they could share with their
- 2 distributor customers about hearing conservation.
- Q. Okay. With respect to those Shooters
 Earplugs, what materials do you recall providing
 - Earplugs, what materials do you recall providing to the salespeople that they could share with their
- 6 distributors and their customers?
- 7 A. So let me clarify your question. Again, I
- 8 worked on the industrial side, and I was training
- 9 industrial salespeople. And the retail side of the
- 10 business is who sells these two products that we're
- 11 looking at here. So I did not train the salespeople
- 12 on the retail side. I trained the salespeople on the
- 13 industrial side.
- 14 Q. Okay. Colonel, on the industrial side,
- 15 were you training people that were selling to
- 16 customers that operated shooting ranges?
- 17 A. No, sir.
- 18 Q. Do you know if either one of those earplugs 19 is or ever has been distributed to any branch of the
- 20 U.S. military?
- A. The MAXX Earplugs has a national stock number for the military.
- 23 Q. Okay. National stock number means what?
- A. Means that the military can buy it in bulk
- 25 easily.

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THE WITNESS: In seminars and

2 educational materials that we provided to the public

3 in general, military people would often come to our

4 seminars and be part of the audience, or I'm sure

5 read some of these trade journals.

6 And the information that we provided

7 is that a well-fit foam earplug is -- provides the

- 8 highest amount -- can provide, if it's well fit, the
- 9 highest amount of protection for both continuous and
- impulse noise.Q. Did you tell the military when you were
- giving these instruction seminars to them that NIOSH
 recommended the wearing of double hearing protection
 to protect people against impulse noise from
- 15 firearms?

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MR. GONZALEZ: Object to form.

THE WITNESS: That is one piece of information that I shared where the other piece of information that goes along with this, especially in military environments, are that you don't often want the maximum amount of protection in a military environment because you lose situational awareness.

Q. (BY MR. CICCONE) Right. And, of course, that's a big concern for people, particularly in urban combat situations; is that correct?

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Page 130
                                                                                                          Page 132
1
      A. It is, sir.
                                                           1
                                                                        THE WITNESS: I did not specifically
2
       Q. Colonel, while you were with Honeywell,
                                                           2
                                                              discuss that.
3 were you aware that Honeywell was marketing Shooters
                                                           3
                                                                  Q. (BY MR. CICCONE) Why not?
4
  Earplugs to people that could potentially wear them
                                                           4
                                                                        MR. GONZALEZ: Object to form.
   in indoor ranges and protect their hearing from
                                                           5
5
                                                                        THE WITNESS: Because I don't think
6
   firearms noises?
                                                           6
                                                              there's a requirement to always wear double
7
       A. I was aware of that.
                                                           7
                                                              protection.
8
       Q. Okay. And how did you become aware of
                                                           8
                                                                  Q. (BY MR. CICCONE) Do you think that it was
9
   that?
                                                           9
                                                               important that the people on the retail side know
10
       A. Seeing them at places where I go, go to
                                                           10
                                                               that NIOSH and these other organizations were
11
    sporting goods store. And I knew there was a retail
                                                           11
                                                                recommending that employees require that shooters
12
    side of the business that sold these hearing
                                                           12
                                                                wear double hearing protection? Do you think that it
13
    protectors through those kind of distribution places
                                                           13
                                                                was important that they know that?
14
    there.
                                                           14
                                                                         MR. GONZALEZ: Objection, form.
15
                                                           15
       Q. Did you ever talk to any of the people in
                                                                         THE WITNESS: There's nothing on this
16 the retail side of the business who were selling
                                                           16
                                                                package that says you can't wear this with an
17
    those Shooters Earplugs about the recommendations by
                                                          17
                                                                earmuff. And so ideal for shooting sports applies to
18
    NIOSH that a double hearing protection would better
                                                                earplug side of that. The double protection is a
                                                           18
19
    protect a person's hearing from impulse noise from
                                                           19
                                                               different issue. This is -- you can wear a muff on
20
    firearms?
                                                           20
                                                               top of that. But when you look at just the plug, if
21
             MR. GONZALEZ: Object to form.
                                                          21
                                                               you're just going to wear a plug, this is the ideal
22
             THE WITNESS: It's possible that
                                                          22
                                                               one.
23
    conversation took place because that was a point that
                                                          23
                                                                   Q. (BY MR. CICCONE) Colonel, there is a --
24
    we made in our routine training seminars.
                                                           24
                                                               there is an outfit in Pennsylvania that's that called
25
       Q. (BY MR. CICCONE) Colonel, did you have any
                                                          25
                                                               Michael & Associates. Are you familiar at all with
                                               Page 131
                                                                                                          Page 133
    concerns with this retail side selling these earplugs
                                                               that outfit?
    as Shooters Earplugs that are ideal for shooting
                                                           2
                                                                  A. I am.
3
    sports, knowing that NIOSH and these other
                                                           3
                                                                  Q. Right. And the principal is a gentleman
4
    organizations was recommending the use of double
                                                           4
                                                               whose name is Kevin Michael. Do you know Kevin?
5
    hearing production?
                                                           5
                                                                  A. I do.
6
             MR. GONZALEZ: Object to form.
                                                           6
                                                                  Q. And Kevin's background is what? He's an
7
             THE WITNESS: Did I have any trouble
                                                           7
                                                              audiologist?
8
    with it? No, because what it's saying here is ideal
                                                           8
                                                                  A. He is.
9
    for shooting sports, Shooters Earplugs, and in fact
                                                           9
                                                                  Q. He's a PhD?
10
    if you're going to use a hearing protector, a
                                                           10
                                                                   A. He is.
11
    well-fit foam earplug would be the protector of
                                                           11
                                                                   Q. Do you know if his father started this
12
    choice.
                                                           12
                                                                business, Michael & Associates?
13
       Q. (BY MR. CICCONE) Right. And we talked
                                                                   A. His father did.
                                                           13
14
    earlier about potential risk if the protectors don't
                                                           14
                                                                   Q. Did you know his father?
15
    fit properly, or if they are not inserted properly,
                                                           15
                                                                   A. No, I never met his father.
16
    the potential risk that the person would not get the
                                                           16
                                                                   Q. In any event, this business has been around
17
    protection that they needed to get to protect their
                                                           17
                                                               for quite a while?
18
    hearing?
                                                           18
                                                                   A. It has.
19
             MR. GONZALEZ: Object to form.
                                                           19
                                                                   Q. Have you ever actually been to Michael &
20
             THE WITNESS: Yes, we have talked
                                                          20
                                                               Associates, their test facility there in
21
    about that.
                                                          21
                                                                Pennsylvania?
22
        Q. (BY MR. CICCONE) Okay. Did you ever
                                                          22
                                                                   A. I've not, no.
23
    discuss that potential risk with the retail people at
                                                          23
                                                                   Q. Have you ever wanted to go?
24
    Honeywell that were selling those Shooters Earplugs?
                                                          24
                                                                   A. I have.
25
              MR. GONZALEZ: Objection, form.
                                                          25
                                                                   Q. Do you know what it looks like and what
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1 kind of the equipment they have? 2 A. Not specifically, but I know that they met 3 NVLAP requirements, and I know what the NVLAP 4 requirements are. And so, you know, I have a general 5 idea what it looks like. 6 Q. What do they do there? Do they the test 6 hearing protection devices among other things? 8 MR. GONZALEZ: Objection, form. 9 THE WITNESS: They do. 10 THE REPORTER: I'm sorry? 11 THE WITNESS: They do. 12 THE REPORTER: Thank you. 13 Q. (BY MR. CICCONE) Colonel, do you know if 14 Michael & Associates tests hearing protection 15 equipment for a fee? 16 In other words, you can pay them to 17 test hearing equipment if you're manufacturing it and 18 marketing it? 19 MR. GONZALEZ: Objection, form. 20 THE WITNESS: Yes. 21 Q. (BY MR. CICCONE) And do you know if 22 Honeywell has sent its hearing protection equipment 23 to Michael & Associates over the years for testing? 24 A. Yes. 25 Q. And did they send hearing protection 27 C. (BY MR. CICCONE) Colonel, do you know if 28 C. (BY MR. CICCONE) Colonel, do you know if 29 C. (BY MR. CICCONE) Colonel, do you know if 20 C. (BY MR. CICCONE) Colonel, do you know if 21 C. (BY MR. CICCONE) Colonel, do you know if 22 C. (BY MR. CICCONE) Colonel, do you know if 23 C. (BY MR. CICCONE) Colonel, do you know if 24 C. (BY MR. CICCONE) Colonel, do you know if 25 C. (BY MR. CICCONE) Colonel, do you know if 26 C. (BY MR. CICCONE) Colonel, do you know if 27 C. (BY MR. CICCONE) Colonel, do you know if 28 C. (BY MR. CICCONE) Colonel, do you know if 29 C. (BY MR. CICCONE) Colonel, there is a report at that's dated December 1st, 2003 Michael to a wer seen that before. 4 C. (A. I do not believe I have. 4 C. (Okay. You want to take a second and read through it. It's not very long. 4 The word in discovery in this case. 4 The Will Represent to you that this report was produced in discovery in this case. 4 Reading. 5 C. (BY MR. CICCONE) Colonel, do you know if 4 MR. CICCONE: Sure. 5 C. (BY MR. CICCONE) Colonel, do you know if 6 C. (BY MR. CICCONE) Colonel, do you know if 7 C. (BY MR. CI		March 0		2020 134 00 137
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12 THE REPORTER: Thank you. Q. (BY MR. CICCONE) Colonel, do you know if Michael & Associates tests hearing protection equipment for a fee? 16 In other words, you can pay them to test hearing equipment if you're manufacturing it and marketing it? 19 MR. GONZALEZ: Objection, form. 10 THE WITNESS: Yes. 20 Q. (BY MR. CICCONE) And do you know if Honeywell has sent its hearing protection equipment to Michael & Associates over the years for testing? 21 A. Yes. 22 Q. And did they send hearing protection or time that you worked for Honeywell? 3 A. Yes. 4 Q. Did hey do it more than once? 5 A. Yes. 6 Q. Did you have any communication with either revin Michael or anybody at Michael & Associates with regard to them testing hearing protection equipment or no no me other topic relating to hearing or on some other topic relating to hearing conservation. 4 Q. Did you ever communicate with Kevin Michael it either on his testing or hearing protection equipment or no some other topic relating to hearing conservation. 4 Q. Did you lever author a paper together? 5 A. Christing to remember if we did. Not that it regard to them testing hearing protection equipment or no some other topic relating to hearing conservation. 4 Q. Did you lever author a paper together? 5 A. I'm trying to remember if we did. Not that it recall. Although, I've worked with him on ANSI, American National Standards Institute, projects. 2 Q. Does he speak at conferences? 3 A. He does. 4 Q. Did vou ever spoken at the same conference with him? 2 D. Did you ever spoken at the same conference with him? 2 D. Did you ever spoken at the same conference with him? 3 D. Did you ever spoken at the same conference with him? 4 D. Did you ever spoken at the same conference with him? 4 D. Did you ever spoken at the same conference with him? 5 D. Did you be and the product of him the proper was a continuation with either any protection equipment or no some other topic relating to hearing oreaction? 5 D. Did yell ever author a paper together? 6 D. Did y		•		•
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Page 138 Page 140 1 A. I was. "These listeners were selected from a standby group 2 Q. All right. And according to this report, 2 of about 35 volunteers, mostly graduate students, who Colonel, they were sent the MAXX Earplugs for 3 regularly served as listeners for measurements of 3 4 testing; is your understanding of these results? 4 this kind." 5 5 A. Yes, sir. Did you understand what I just read? 6 Q. Before I ask you anything about this 6 A. Yes, sir. 7 7 Q. Okay. So is it your understanding that report, tell me whether Honeywell has the equipment 8 and the personnel to test its own hearing protection there's a group of regular people that they test 9 devices if it wants to. 9 hearing protection devices? 10 MR. GONZALEZ: Object to form. 10 A. Yes. 11 THE WITNESS: They do, yes. 11 Q. So in other words, they don't get people 12 Q. (BY MR. CICCONE)Okay. They have a 12 off the street who are complete strangers. They get 13 people that are part of a regular group that they 13 laboratory somewhere with equipment and personnel 14 trained to use that equipment; they can test their 14 normally use for testing? 15 A. Yes, sir. 15 own hearing protection devices if they want to? 16 A. Yes, sir. 16 Q. Do you know why they do it that way? 17 MR. GONZALEZ: Object to form. 17 Q. Okay. But do they send them out instead of testing them internally for whatsoever reason? THE WITNESS: I do. 18 18 19 19 Q. (BY MR. CICCONE) Why? A. Yes, sir. 20 Q. And you told me that while you worked for 20 A. Because the EPA requires it for the 21 the Honeywell, they had sent a number of hearing 21 labeling purposes. 22 protection devices out to Michael & Associates for 22 Q. And when Honeywell was testing its products 23 testing; is that correct? 23 internally, did Honeywell have a regular group of 24 24 people that it used as volunteers to test its hearing A. Yes, sir. 25 25 Q. Okay. Now, I want to ask, are you familiar products? Page 139 Page 141 at all, Colonel, with the testing procedure where MR. GONZALEZ: Objection, form. THE WITNESS: They may have in the 2 labs like Michael & Associates or even Honeywell test 2 past, but it was difficult for them maintain a pool 3 hearing protection devices? 4 A. Yes, sir. 4 of subjects. 5 5 And that could have been one of the Q. Have you ever actually been in a lab when 6 the lab was testing a hearing protection device? 6 reasons they asked Michael & Associates to do their 7 7 A. I've been in the labs but not when the testing. 8 testing was going on. 8 Q. (BY MR. CICCONE)Okay. And, Colonel, we 9 Q. But you're familiar with the way the 9 were talking earlier about the experimenter-fit 10 process is supposed to work? 10 protocol. And you were saying that the tester, for 11 A. Yes, sir. 11 example, whoever it was at Michael & Associates who 12 Q. Okay. And on page 1 of this report, 12 was doing this, would fit the volunteer with the they're saying that -- they talk about the ANSI 13 earplugs? 13 14 standard. And then the next line is "using the 14 A. That's correct. experimenter-fit protocol". Experimenter-fit 15 Q. Okay. Why didn't Michael & Associates 15 16 protocol. Do you know what they're talking about 16 trust the volunteer to fit the earplugs himself or 17 there? 17 herself? 18 MR. GONZALEZ: Object to form. 18 A. I do. 19 THE WITNESS: It's not a matter of 19 Q. Okay. Tell me what that means. 20 A. That means that the experimenter, the 20 trust. The protocol described in ANSI S3.19-1974 21 person that's running the laboratory, fits each of 21 requires experimenter fit. 22 22 the volunteer subjects with the earplug according to Q. (BY MR. CICCONE)Okay. And during the test, 23 the directions on the package. 23 Colonel, did they expose these listeners to 24 24 Q. Okay. Let's break that down. There's a continuous noise in some way?

line in this report, and it's on the first paragraph,

25

MR. GONZALEZ: Objection, form.

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Page 142 Page 144 1 THE WITNESS: Yes. 1 Q. Okay. What is that saying? Can you 2 Q. (BY MR. CICCONE)Was there some sort of a 2 explain it to us, please. 3 device that could emit a controlled amount of noise 3 MR. GONZALEZ: Objection, form. 4 that was part of the experiment that was being 4 THE WITNESS: It's a standard 5 conducted? 5 disclaimer that says -- that is explaining that the 6 MR. GONZALEZ: Objection, form. 6 noise reduction rating is done in a controlled 7 THE WITNESS: Yes, there is. 7 environment according to a specific ANSI protocol, 8 Q. (BY MR. CICCONE)And it could be duplicated 8 and that somebody else might not get those exact 9 each time. In other words, the device was always 9 10 10 going to emit the same sounds regardless of the Q. (BY MR. CICCONE)Well, by "somebody else," 11 number of times that it emitted it? 11 do you mean a user in the field might not get the 12 A. That's correct. 12 same noise reduction rating as they did in the 13 Q. Okay. And according to this report, laboratory? 13 14 Michael & Associates got a noise reduction rating of 14 A. That's one somebody else. Another group of the MAXX Earplugs of a 33; is that correct? 15 15 panel could get a slightly different results. 16 16 A. That's correct. Q. We'll talk about that latter notion a 17 17 Q. Do you know if the experimenter at Michael little bit more in a minute. But I want to ask you, & Associates adjusted the earplugs in the volunteer 18 18 Colonel, tell me what the relevance of a NRR rating 19 at any time during the testing process? 19 in the laboratory is. Why is it relevant? 20 MR. GONZALEZ: Objection, form. 20 MR. GONZALEZ: Objection, form. 21 THE WITNESS: There are protocols and 21 Sidebar. 22 22 directions within the standard that allow the subject THE WITNESS: The purpose of a noise 23 to listen to a fitting noise and say, I don't think 23 reduction rating, the way it's explained in the EPA 24 this earplug is fit well, and the experimenter to 24 labeling documentation, is, in fact, to compare one 25 adjust and refit the earplug. 25 hearing protector to another hearing protector. Page 143 Page 145 Q. (BY MR. CICCONE)My question is this, So a hearing protector that has a 2 Colonel, that can the experimenter by adjusting the 2 higher NRR has been proven in a laboratory to be able 3 to produce a higher amount of attenuation than some 3 fit of those earplugs get a high NRR that the 4 experimenter might not otherwise get without 4 that has a lower noise reduction rating. 5 5 adjusting the earplugs? So the purpose of the NRR is 6 MR. GONZALEZ: Objection to form. 6 comparison of two products. 7 THE WITNESS: In the way that question 7 Q. (BY MR. CICCONE) So does it allow a 8 is asked, they -- it could happen. They could also 8 consumer to compare earplug A to earplug B because 9 get less protection by adjusting them. 9 earplug A has a higher noise reduction rating than 10 10 Q. (BY MR. CICCONE)But Michael & Associates earplug B? 11 11 was being paid by the Bacou-Dalloz to test the A. That's its purpose. 12 earplugs, right? 12 Q. And do you believe or have reason to A. According to ANSI standards. 13 believe that a high NRR rating can be used be a 13 14 Q. Right. And Honeywell paid them 14 manufacturer or a seller as a marketing tool? Like, 15 subsequently to test its earplugs; correct? 15 hey, our earplugs have a higher NRR than our 16 A. That's the industry standard. That's what 16 competitor's earplugs? 17 everybody does. 17 MR. GONZALEZ: Object to form. 18 18 Q. There's a disclaimer, Colonel, on the THE WITNESS: Yes. 19 19 bottom of the first page. And it says, "Use these Q. (BY MR. CICCONE) Colonel, do you believe 20 laboratory derived attenuation data for comparison 20 that the NRR that is achieved in the laboratory is 21 21 purposes only. The amount of the protection afforded what a consumer could expect out in the real world? 22 22 in field use is often significantly lower depending MR. GONZALEZ: Objection, form. 23 on how the protectors are fitted and worn." 23 THE WITNESS: If they wear the hearing

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25

protection properly, yes.

Q. (BY MR. CICCONE) Okay. And the caveat is

Do you understand what I just read?

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A. I do.

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Page 148

if they wear it properly? 1 2

A. Yes.

3 Q. And you explained that earlier that wearing 4 them properly requires some basic skills, right?

5 A. Yes.

9

17

18

21

6 Q. Okay. Now --

7 A. The user in the field can get higher 8 attenuation than the noise reduction rating.

Q. Do you believe it's more likely than not 10 that the user in the field who doesn't know how to 11 wear the earplugs correctly will get higher or lower 12 NRR than people in the laboratory who were fit by the

13 experimenter?

14 MR. GONZALEZ: Objection, form.

15 THE WITNESS: Data shows that there's 16 a normal distribution of that.

Q. (BY MR. CICCONE) What does that mean?

A. That some of the users are going to get higher attenuation; many of them are going to get 19 20 pretty close to what noise reduction rating is, and some are going to get lower. A normal distribution

22 of people.

23 (Exhibit 13 marked)

24 Q. (BY MR. CICCONE) Colonel, there's a -- an 25 article that you authored that was published in

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Industrial Safety and Hygiene News, ISHN. And it's

2 dated April 1st of 2015. Do you remember writing

3 that paper?

4 A. I do.

5 Q. Okay. And when you wrote that paper, did 6 you still work for Honeywell?

7 A. I did.

8 Q. And what was your purpose in writing that 9 paper?

10 A. Further education about what the noise 11 reduction rating means, and making people aware of 12 the then-very-new ability to do hearing protection

13 fit testing.

14

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Q. Colonel, the title to the paper is an interesting title. And it says, Don't Rely Solely on Noise Reduction Ratings for Protection.

17 Tell me what you were thinking when

you wrote that. 18

19 MR. GONZALEZ: Objection, sidebar. 20 THE WITNESS: I can't tell you what I 21 was thinking when I wrote that. It was a long time

22 ago.

23 MR. GONZALEZ: Form.

24 Q. (BY MR. CICCONE) Well, what was your intent 25 when titling the paper, Don't Rely Solely on Noise

Reduction Protection for Safety?

2 THE WITNESS: To have the reader look 3 at the article and find out more in depth what the 4 noise reduction rating meant and understand that 5 people could get both higher and lower amounts than 6 what the noise reduction rating says.

Q. (BY MR. CICCONE) Colonel, there is a disclosure that EPA apparently requires to be included on a package of the hearing protectors. And I'm going to ask you whether you're familiar with the disclosure. And what we've done is, Exhibit No. 9 includes some photographs of the Shooters Earplugs that are in question in the case. And we have the exemplar box.

And then what we have done is that we have taken the EPA disclosure that's pasted on the back of the box, and we have put a white piece of paper into the box so that the text stands out. And then we have enlarged it greatly. Okay?

A. Uh-huh.

21 Q. And are you familiar at all with that EPA 22 disclosure?

A. Yes, I'm familiar with it.

24 Q. Okay. And I'll just read it out loud, and 25 then I want to ask you some questions. It says,

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"Although hearing protectors can be recommended for

2 protection against the harmful effects of the

3 impulsive noise, the noise reduction rating, NRR, is

4 based on the attenuation of continuous noise and may

5 not be an accurate indicator of the protection

6 attainable against impulsive noise such as gunfire."

Do you understand what I just read?

A. I do.

Q. What does that mean?

A. It means that the regulatory requirement that the EPA had for labeling only applies to the testing of the hearing protector in continuous noise.

Q. Do you believe or have reason to believe that the NRR rating on the box of the Shooters Earplugs is an indication of what protection that a user could expect from exposure to impulse noise such as gunfire?

MR. GONZALEZ: Objection, form.

THE WITNESS: The way you asked the question is -- sounds like you're asking me to say that if you tested it for impulse noise would you get the same kind of the reduction? And, no, you would not, because continuous noise and impulse noise are different. And this testing that's required for the labeling is required to be for continuous noise.

150 to 153

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Page 150
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       Q. (BY MR. CICCONE) Colonel, with respect to
1
                                                                50 percent in connection with exposure to continuous
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   the NRR of 33, do OSHA inspectors require that the 33
                                                            2
                                                               noise, that more likely than not OSHA would also
3
   be derated to some lower number to reflect the
                                                            3
                                                               derate hearing protectors with respect to exposure to
4
   conditions that a worker will potentially encounter
                                                            4
                                                               impulsive noise?
5
                                                            5
   in a workplace?
                                                                         MR. GONZALEZ: Objection, form.
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             MR. GONZALEZ: Objection to form.
                                                            6
                                                                         THE WITNESS: Not necessarily because
7
             THE WITNESS: OSHA recommends derating
                                                            7
                                                               impulse noise is very different characteristics from
8
   in a particular application of the noise reduction
                                                                continuous noise.
9
    rating. When the employer is trying to determine if
                                                            9
                                                                   Q. (BY MR. CICCONE) Do you think that people
10
    a hearing protector is adequate for a given
                                                           10
                                                                don't need to be protected against exposure to
11
    continuous noise, specifically for the determination
                                                           11
                                                                impulsive noise?
12
    of adequacy, OSHA recommends that their inspectors
                                                           12
                                                                          MR. GONZALEZ: Objection, form.
                                                           13
13
    derate the earplugs by 50 percent.
                                                                          THE WITNESS: The way you ask the
14
       Q. (BY MR. CICCONE) Okay. So in other words,
                                                           14
                                                                question, I do think people need to be protected
15 if OSHA were to derate the 33 NRR in these Shooters
                                                           15
                                                                against impulsive noise. It's a different kind of
                                                           16
16
    Earplugs, would the NRR, according to OSHA, be half
                                                                risk, a different character of noise risk than
                                                           17
17
    of that?
                                                                continuous noise.
                                                           18
18
       A. Actually, the derating is more complicated
                                                                   Q. (BY MR. CICCONE)And, Colonel, if these
                                                           19
19
    than that. The noise reduction rating is measured in
                                                                Shooters Earplugs that are ideal for shooting sports
20
    decibel C weighting. And the noise exposure that we
                                                           20
                                                                have a NRR of 33, what attenuation, if any, do you
21
    measure for human beings for risk of noise-induced
                                                           21
                                                                believe that they would provide to somebody exposed
                                                           22
22
    hearing loss is measured in decibel A weighting.
                                                                to impulsive noise from firearms?
23
             And so to convert an NRR to a amount
                                                           23
                                                                          MR. GONZALEZ: Objection, form.
24
    that you would expect a person to get, you would need
                                                           24
                                                                          THE WITNESS: I couldn't know unless
25
    to apply it in the environment that we just talked
                                                           25
                                                                they were tested according to the impulsive noise
                                                Page 151
                                                                                                           Page 153
    about: Is it adequate to protect from their noise?
                                                                standard. And then it would likely be a higher
2
             You would subtract seven from the 33
                                                            2
                                                               number than that.
3
   and then derate it by half.
                                                            3
                                                                         Impulsive noise is very different than
4
       Q. So it's 26 -- 26 divided by 2 is 13?
                                                            4
                                                               continuous noise.
5
                                                            5
       A. Yes.
                                                                   Q. (BY MR. CICCONE)So you don't believe that
6
       Q. So instead of the NRR of 33, OSHA would say
                                                            6
                                                               the NRR rating is relevant in any way with respect to
7
   that the NRR is really only 13?
                                                            7
                                                               exposure to impulsive noise, for example, from
8
       A. In that very specific application of, is
                                                            8
                                                               firearms?
9
    this hearing protector adequate for the continuous
                                                            9
                                                                         MR. GONZALEZ: Objection, form.
                                                           10
10
    noise exposure that the employee has.
                                                                          THE WITNESS: I would not say that.
11
       Q. Okay. Do you believe or have reason to
                                                           11
                                                                The way you say it, it's not relevant in any way. We
12
    believe that OSHA would derate the NRR in connection
                                                           12
                                                                used to joke that NRR should stand for not really
13
    with exposure to impulsive noise; for example, from
                                                           13
                                                                relevant. But its true purpose is to compare
14
    firearms?
                                                           14
                                                                products. And so, yes, it is relevant in that if a
15
             MR. GONZALEZ: Objection, form.
                                                           15
                                                                consumer is comparing products for impulse noise
16
             THE WITNESS: They don't have a policy
                                                           16
                                                                protection, it's likely that a higher NRR will
17
    on that that I know of.
                                                           17
                                                                provide more protection than a lower NRR.
18
       Q. (BY MR. CICCONE) What has your experience
                                                           18
                                                                   Q. (BY MR. CICCONE)So you think --
19
    with OSHA been with regard to derating NRRs on
                                                           19
                                                                   A. If it's fit properly.
                                                           20
20
    hearing protectors in connection with exposure to
                                                                   Q. Right. So you think there is a
21
    impulsive noise?
                                                           21
                                                                relationship between NRR and protection to impulsive
22
                                                           22
       A. I have no experience in connection to
                                                                noise?
23
    impulsive noise.
                                                           23
                                                                   A. There is a relationship, but it's not a
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                                                           24
       Q. Do you believe or have reason to believe
                                                                one-to-one relationship.
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Q. Okay. There's another article that I want

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that if OSHA derates hearing protectors by more than

	March 0	•	
1	Page 154 to draw your attention.	1	Page 156 the attenuation potential for these types of sounds."
2	MR. CICCONE: What number are we on,	2	Do you see where I read?
3	23?	3	A. Ido.
4	THE REPORTER: 23.	4	Q. Do you agree with that statement?
5	(Exhibit 23B marked)	5	A. In context.
6	Q. (BY MR. CICCONE)And, Colonel, this is an	6	MR. GONZALEZ: Objection, form.
7	article that was written by Scott Lake, and it's	7	THE WITNESS: In context, I would
8	published on January 2nd of 2014, and it was	8	agree with that.
9	published in Industrial Safety and Hygiene News.	9	Q. (BY MR. CICCONE) And Scott continues,
10	First of all, do you know Scott Lake?	10	"NIOSH has recommended that hunters and shooters wear
11	A. I do.	11	dual hearing protectors, earmuffs and plugs, when
12	Q. And how do you know him?	12	engaging in target practice and recreational
13	A. From National Hearing Conservation	13	shooting. The levels at the eardrum when using a
14	Association membership and from serving with him on	14	single protector are close to the recommended maximum
15	the American National Standards Institute committees.	15	exposure of 140-decibel peek sound pressure level."
16	Q. And Scott, he works for an outfit called	16	Do you see where I've read that?
17	Westone Hearing Protection. That's in Colorado.	17	A. Yes.
18	A. He did.	18	Q. Do you agree with that statement?
19	Q. Okay. And that company made custom hearing	19	MR. GONZALEZ: Objection, form.
20	protectors?	20	THE WITNESS: So, again, I'm I need
21	A. That's correct.	21	to read this whole article to get this into context
22	Q. Okay. Are you familiar at all with that	22	because this is the end of an article.
23	company?	23	MR. GONZALEZ: Do you want to go off
24	A. Iam.	24	the record to read it?
25	Q. Have you ever done any work with that	25	THE WITNESS: I wouldn't mind doing
	2 155		
1	Page 155 company or for that company?	1	Page 157 that.
1 2		1 2	
	company or for that company?		that.
2	company or for that company? A. When back in earlier in my military	2	that. MR. GONZALEZ: Can we go off the
2 3	company or for that company? A. When back in earlier in my military career when I was fitting hearing aids, I ordered ear	2	that. MR. GONZALEZ: Can we go off the record?
2 3 4	company or for that company? A. When back in earlier in my military career when I was fitting hearing aids, I ordered ear molds for hearing aids from Westone.	2 3 4	that. MR. GONZALEZ: Can we go off the record? THE WITNESS: Because the second
2 3 4 5	company or for that company? A. When back in earlier in my military career when I was fitting hearing aids, I ordered ear molds for hearing aids from Westone. Q. These were custom earplugs?	2 3 4 5	that. MR. GONZALEZ: Can we go off the record? THE WITNESS: Because the second statement sounds odd to me. So I would like to read
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   recommended that hunters and shooters wear dual
                                                                 still put the sound pressure level at a range that
2
   hearing protection.
                                                             2
                                                                 it's potentially damaging to your hearing?
                                                             3
3
             Do you remember reading that?
                                                                           MR. GONZALEZ: Object to form.
4
      A. Yes.
                                                             4
                                                                           THE WITNESS: I don't disagree with
5
       Q. And then he says that "The levels at the
                                                             5
                                                                 him, but it depends on the weapon that you're using
   eardrum when using a single protector are close to
                                                             6
                                                                 and the impulse of the noise, certainly.
7
   the recommended maximum exposure level of 140 decibel
                                                             7
                                                                    Q. (BY MR. CICCONE)Well, sure. Do you agree,
   peek sound pressure level."
                                                                 Colonel, that the assumption of all of this is that
9
             Do you see that?
                                                             9
                                                                 you're wearing the hearing protection correctly?
       A. Yes.
                                                             10
10
                                                                     A. It is, and he says that in here, too.
11
                                                             11
       Q. And correct me if I'm wrong, but is he
                                                                     Q. Right. Let's -- let me talk about another
12 saying that even if you're wearing a earplug
                                                             12
                                                                 topic with you. Now, we had earlier -- let me keep
13
    correctly, that the attenuation that you could expect
                                                             13
                                                                  it all together.
14
    would still put you very close to that 140 decibel
                                                                     A. Yes.
                                                             14
15
    potentially dangerous exposure level?
                                                             15
                                                                     Q. Colonel, we had earlier talked about the
16
             MR. GONZALEZ: Objection, form.
                                                             16
                                                                  disclosure that the EPA requires on hearing
17
             THE WITNESS: I think -- no, I don't
                                                             17
                                                                  protectors. And, specifically, we talked about the
                                                             18
18
    necessarily think he's exactly saying that. So,
                                                                  disclosure that's on the back of the Shooters
19
    again, let me put it back into context.
                                                             19
                                                                  Earplugs. And I think I had provided you with a
20
             Early in the article, he makes the
                                                             20
                                                                  blowup. And you probably have it there. Let me see
21
    point, since attenuation tends to increase when the
                                                             21
                                                                  if I have it.
                                                             22
22
    impulsive level increases, the constant value derived
                                                                           Yeah, here's the photograph that we
23
    from the NRR measurement will likely underestimate
                                                             23
                                                                  took.
24
    the amount of protection one receives when wearing
                                                             24
                                                                     A. Exhibit 9.
25
    protection properly. He said for the impulse noise.
                                                             25
                                                                           MR. GONZALEZ: Exhibit 9.
                                                 Page 159
                                                                                                              Page 161
1
             So the reason impulsive noises are so
                                                             1
                                                                    Q. (BY MR. CICCONE)Exhibit 9.
2
   different from continuous noises, and how hearing
                                                             2
                                                                           Colonel, are you familiar enough with
3
   protectors work with them -- and he explains this in
                                                                 the EPA regulations to be able to tell us whether you
4
   the article -- is that at the lower levels, say at
                                                             4
                                                                 believe that that disclosure is supposed to be put on
5
   this 140 dBP, you get X amount of protection. But at
                                                             5
                                                                 the product in such a way that it can be seen easily?
6
   150, you get more protection. And at 160, you get
                                                             6
                                                                           MR. GONZALEZ: Objection, form.
7
   more protection. And at 170, you get even more
                                                             7
                                                                           THE WITNESS: The EPA regulation just
8
    protection.
                                                             8
                                                                 says you have to have it on the packaging. It can be
9
             So protection from a non -- from
                                                             9
                                                                 on an insert in packaging.
10
                                                             10
    impulse noise is nonlinear. It changes as the
                                                                           This -- this -- well, this part has to
11
    impulse level changes. So you can't use a single
                                                             11
                                                                  be on the outside, this little graph that has the
12
    number. And that's what the EPA was proposing at the
                                                             12
                                                                  noise reduction rating 33, and where it was
13
    time, is that there be a range of numbers for
                                                             13
                                                                  manufactured, that's has to be on the outside.
14
    continuous noise and a completely different number
                                                             14
                                                                            Additional information can be on the
15
    for impulse noise that shows that nonlinear
                                                             15
                                                                  insert in the packaging.
                                                                     Q. (BY MR. CICCONE)Do you believe that the
16
    performance of the hearing protector. That it gives
                                                             16
    you this protection at 150, this much at 160, and
17
                                                             17
                                                                  disclosure is supposed to be legible?
18
    this much at 170.
                                                             18
                                                                            MR. GONZALEZ: Objection, form.
19
                                                             19
                                                                           THE WITNESS: Well, certainly.
             That never went into effect, but
20
    that's what the EPA was proposing at the time. And
                                                             20
                                                                     Q. (BY MR. CICCONE) And -- Well, right, and of
21
    that's what this article was trying to explain.
                                                             21
                                                                  course you know what the disclosure says. In other
22
       Q. Okay. So do you disagree with his
                                                             22
                                                                  words, you're familiar with the language of the
23
    statement that the level at which the eardrum is
                                                             23
                                                                  disclosure, are you not?
24
                                                            24
    exposed to a sound pressure level when wearing only a
                                                                     A. I couldn't cite it, but I understand it,
25
    single protection device, for example, earplugs, will
                                                             25
                                                                 yes.
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	March 0	ά,	2020 162 (0 165
1	Page 162 Q. Right. And look, I want you to be honest	1	Page 164 think we're going to skip because of the length of
2	-	2	time that we've been here. But what I want to talk
3		3	to you generally about is, what role, if any, that
4	the package, can you easily read the disclosure?	4	you played with respect to the EPA's proposed
5		5	amendment to the noise reduction rating, labeling,
6		6	and testing provisions.
7		7	A. I testified in front of the EPA about the
8		8	proposed rule change
9		9	Q. Okay. And so that we can understand each
10		10	other, there's a Exhibit No. 15 is dated
1	•	11	August 5th of 2009. And this is from the EPA's
12		12	website, and it's got the proposed changes. And is
13	-	13	that something that you've ever seen before?
14		14	A. Yes.
15		15	Q. Okay. And among other things, Colonel, am
16		16	I correct that EPA says in the proposal and
17		17	there's a lot of information "Professional trade
18		18	professional and trade organizations,
19	I can read it. Yes.	19	manufacturers, and other federal agencies have
20	Q. (BY MR. CICCONE)And how about the MAXX	20	presented their that concerns to EPA on a number of
2	Earplugs that are supposed to be the same as the	21	significant issues, including the required test
22	2 Shooters Earplugs? Colonel, do you see that	22	method, the required noise reduction rating, and the
23	disclosure anywhere on that package of earplugs?	23	required textual information on the labels, all
24	MR. GONZALEZ: That's in exhibit	24	interested persons generally agree that the existing
25	it's an exhibit you already have?	25	regulations need to be revised to address new
	Dog 162		Dags 16F
1	Page 163 MR. CICCONE: It is.	1	Page 165 technology products, related test methodologies, and
1 2	MR. CICCONE: It is.	1 2	
	MR. CICCONE: It is. MR. GONZALEZ: Just want to make sure		technology products, related test methodologies, and
2	MR. CICCONE: It is. MR. GONZALEZ: Just want to make sure you're talking about	2	technology products, related test methodologies, and current user needs."
3	MR. CICCONE: It is. MR. GONZALEZ: Just want to make sure you're talking about MR. CICCONE: I think it's going to be	2	technology products, related test methodologies, and current user needs." Do you see where I read that?
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2 3 4 5 6 7 8 9 10 11 12 15 16 17 18 18 20 22 22	MR. CICCONE: It is. MR. GONZALEZ: Just want to make sure you're talking about MR. CICCONE: I think it's going to be Exhibit No. 10. MR. GONZALEZ: Thank you. Q. (BY MR. CICCONE) Do you see the disclosure anywhere on that package? A. I don't see it here. Q. Do you know why it's not there? MR. GONZALEZ: Objection, form. THE WITNESS: I do not. Q. (BY MR. CICCONE)And are you saying that you think that that disclosure can be inside the package, or does it have to be on the outside of the package? A. It can be on the inside. And there's some insert inside this package, and it's likely in there. Q. Okay. Well, we'd have to open that, and we're not going to do that today. I want to talk to you briefly, Colonel, about the 1970 the EPA proposed changes to the NRR regulations. Are you familiar at all with those proposed changes? A. I am.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	technology products, related test methodologies, and current user needs." Do you see where I read that? A. I do. Q. And, Colonel, when you say you testified before the EPA, did you go to Washington, D.C., and testify? A. We did. Q. Okay. Who is "we"? A. Brad Witt, my boss at the time, myself, and I believe our marketing director at the time, Renee Bessette, went with us. Q. And what year would this have been? A. Probably 2009. Q. Because the EPA is suggesting now that there's going to be a workshop in March of 2003. Do you see that? A. That was before my time. Q. Well, maybe I misread it. Let me see. Maybe I misquoted something because I want to make sure we get it correct. A. It's down there.

166 to 169

	nai cii 0	1 ,	2020
1	Page 166 participate in a workshop at EPA's headquarters in	1	Page 168 product.
2	Washington, D.C., on March 27th, through 28th of	2	Q. (BY MR. CICCONE)So you told them you were
3	2003."	3	in favor; "you" being Honeywell or Sperian?
4	That would have been four years after	4	A. Yes.
5	that proposal was first published in the federal	5	Q. Colonel, were the regulations ever revised
6	register	6	as far as you know?
7	A. Four years before.	7	A. They were not.
8	Q. Maybe I've just got my math backwards.	8	Q. Okay. And it's been what, it's been 11
9	A. No, I	9	years
10	Q. No, 2003. You're right. I just had the	10	A. It has.
11	dates wrong.	11	Q since the proposed regulations?
12	So that workshop was before this came	12	Do you know why, or do you have do
13	out?	13	you know why they weren't ever revised?
14	A. My guess is the workshop was before this	14	MR. GONZALEZ: Objection, form.
15	came out because there's a lot of research and work	15	THE WITNESS: I do have some
16	and communication that goes on prior to the	16	information about that. And the information that I
17	publication of a proposed rule. It can take years of	17	have is that, so Bill Murphy at NIOSH was working
18	talking to manufacturers, talking to various people,	18	very closely with the EPA to create these new
19	figuring out exactly what they want to propose.	19	changes. And after all of the hearings and everybody
20	Q. Right.	20	saying, yes, this is a good idea, the person who was
21	A. And then proposing it.	21	working on this at the EPA retired. And there was no
22	Q. No, you're right because I've just got	22	driver at the EPA to keep it going.
23	look, I've just got the dates transposed. The	23	And other political factors, I think,
24	workshop was long before	24	came in. And then at some point a couple years
25	A. Correct.	25	later so probably 2011, 2012, somewhere around
1	Page 167 Q the EPA had published these proposed	1	Page 169 there the EPA contacted Bill Murphy and said, can
2	changes on the federal register.	2	you ask the manufacturers if anybody is prohibited in
3	A. Yes.	3	selling these products because we haven't relabeled,
4	Q. So tell me, so you and Brad, and who was	4	done the relabeling regulation? And Bill reached out
5	the third person?	5	to many of us in the manufacturing industry, and no,
6	A. Renee Bessette.	6	it wasn't causing us not to be able to sell our
7	Q. Renee. And Renee works with marketing?	7	products. And so the EPA's response to that was, we
8	A. She did.	8	don't need to change anything.
9	Q. And the three of you went to Washington,	9	Q. So all that work that was put into it, was
10	D.C., and you testified?	10	it just abandoned?
11	A. Yes.	11	A. It was.
12	Q. You testified, and they testified, as well?	12	Q. Did funding play any role in the decision
13	A. I	13	to abandon the regulation amendments?
14	Q. If you can remember.	14	MR. GONZALEZ: Objection, form.
15	A. I think Brad and I testified. I don't	15	THE WITNESS: I can't answer that.
16	think Renee actually spoke.	16	(Exhibit 16 marked)
17	Q. And give me the substance of your	17	Q. (BY MR. CICCONE) Well, here's
18	testimony. What do you remember telling to the EPA?	18	Exhibit No. 16, Colonel. This is a page from the
19	MR. GONZALEZ: Object to form.	19	EPA's website. And it's EPA history, noise and the
20	THE WITNESS: The substance was that	20	Noise Control Act.
21	we were we Sperian at the time was in favor of	21	And what it says I'll just read it
22	the change in labeling, and there were some specific	22	out loud, and you can look at it if you want. It
23	required changes on the manufacturers that we wanted	23	says, "In the past, EPA coordinated all federal noise
24	to have changed. Specifically, it was the length of	24	control activities though its Office of Noise
105	the angle of the first the best to be able to be first to		Alatana at a location EDA 1 1 141 20 1

25 Abatement and Control. EPA phased out the office's

25 time that it -- that we had to be able to retest

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Page 170
                                                                                                            Page 172
                                                                regulations would have provided more information to
1 funding in 1982 as a part of a shift in federal noise
                                                                the consumer.
2 control policy to transfer the primary responsibility
                                                            2
                                                            3
3
   of regulating noise to state and local governments.
                                                                   Q. (BY MR. CICCONE) Do you believe that the
4 However, the Noise Control Act of 1972 and Quiet
                                                            4
                                                                current regulations adequately protect the public to
5
                                                            5
                                                                the extent that you believe they should?
   Communities Act of 1978 were never rescinded by
6
   Congress and remain in effect today; although,
                                                            6
                                                                         MR. GONZALEZ: Objection, form.
7
    essentially unfunded."
                                                            7
                                                                         THE WITNESS: I would like to see more
8
       A. That's correct.
                                                                information, and there's actually an ANSI standard
9
             MR. GONZALEZ: Object to form.
                                                            9
                                                                being developed for testing of impulse noise with
             THE WITNESS: And when you say did
10
                                                            10
                                                                hearing protectors. And, I mean, potentially once
    funding have anything to do with that, yes, the
                                                            11
11
                                                                that ANSI becomes a consensus standard approved by
12
    office was defunded back in the 80s and never funded
                                                            12
                                                                the community, there could potentially be another
                                                            13
13
                                                                effort to try and get labeling changed. But...
    again, so...
14
       Q. (BY MR. CICCONE) Do you know, Colonel, that
                                                           14
                                                                    Q. But the question was, Colonel: Do you
15 the -- if the State of Texas is working on any kind
                                                            15
                                                                believe that the regulations, as written, protect the
    of regulations to regulate hearing protection
                                                            16
                                                                public to the extent that you believe that they
16
                                                            17
17
    devices, the testing of those devices, the labeling
                                                                should?
                                                            18
18
    of those devices; do you know if the State of Texas
                                                                          MR. GONZALEZ: Objection, form.
19
    is doing any kind of work like that?
                                                            19
                                                                         THE WITNESS: They're what we have
20
       A. I'm not aware of any.
                                                            20
                                                                these days. I can't change that.
21
       Q. Do you know of any efforts that are being
                                                            21
                                                                    Q. (BY MR. CICCONE)Well, is your answer yes or
                                                            22
22
    made on the federal level to the either restore
                                                                no?
23
    funding to the EPA's noise control office or to try
                                                            23
                                                                          MR. GONZALEZ: Object to form.
24
    to stimulate the amendment of the regulations that we
                                                            24
                                                                          THE WITNESS: Restate the question.
    discussed earlier? Do you know of the efforts on the
                                                            25
                                                                    Q. (BY MR. CICCONE)Do you believe that the
                                                Page 171
                                                                                                            Page 173
                                                                federal regulations as currently written adequately
    federal level that are being made along those lines?
2
       A. On the federal level?
                                                                protect the public to the extent that you believe
                                                            3
3
       Q. Yes.
                                                                that they should?
4
       A. No.
                                                            4
                                                                        MR. GONZALEZ: Object to form.
                                                            5
                                                                        THE WITNESS: I don't want to answer
5
       Q. Colonel, do you believe that the
6
    regulations that we've been discussing, these EPA
                                                            6
                                                               just yes or no because it's more than a yes or no
7
    regulations, do you believe that those regulations
                                                            7
                                                                question.
                                                            8
8
    are intended to protect the public?
                                                                         MR. GONZALEZ: He won't cut you off.
9
             MR. GONZALEZ: Object to form.
                                                                You can make your answer now, and then he can ask you
                                                            10
10
              THE WITNESS: Yes.
                                                                more questions.
        Q. (BY MR. CICCONE)Okay. And tell me,
                                                            11
                                                                         THE WITNESS: Okay.
11
12
     generally, how you believe that those regulations are
                                                            12
                                                                         So I suppose I would answer no. More
13
                                                                information about how hearing protectors perform with
     intended to protect the public?
                                                            14
14
              MR. GONZALEZ: Objection, form.
                                                                impulse noise would be helpful to consumers.
                                                            15
                                                                   Q. (BY MR. CICCONE)Would it be helpful to
15
              THE WITNESS: Again, the verbiage
16
    about the noise reduction rating is that it's used to
                                                            16
                                                                people that are considering buying Shooters Earplugs
                                                            17
                                                                that are ideal for shooting sports?
17
     compare products, to be able to say, this earplug is
                                                            18
                                                                         MR. GONZALEZ: Object to form.
18
    capable of blocking more noise than this earplug is.
                                                           19
                                                                         THE WITNESS: It would be. And let me
19
        Q. (BY MR. CICCONE)Colonel, you told me that
                                                                say a little bit more about that, as well. Is the
20
    you went to Washington to testify that you believed
                                                            20
21
                                                            21
                                                                additional information that would go onto this
    that the regulations needed to be revised.
22
                                                           22
              Do you believe that the regulations
                                                                package if those changes were made would, again, show
23
    are adequate the way they're currently written?
                                                            23
                                                                that a foam earplug would be the maximum amount of
24
              MR. GONZALEZ: Objection, form.
                                                            24
                                                                protection that -- you know, when you compared it to
25
                                                                other hearing protectors, it would be the highest
              THE WITNESS: The proposed revised
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	1	rated again.	1	Page 176 other cases?
	2	(Exhibit 17 marked)	2	A. No, sir.
	3	Q. (BY MR. CICCONE) Colonel, let's talk about	3	Q. Is this the first case?
	4	another topic. There's an Exhibit No. 17, there's	4	A. Yes, sir.
	5	an affidavit by Kevin Michael that was produced in	5	Q. Okay. And, Colonel, the report that
	6	discovery in this case. And it also includes a	6	Michael & Associates has written said that Neil sent
	7	report that he has written with respect to his	7	them the earplugs for testing; do you see that?
	8	alleged testing of these MAXX Earplugs or Shooters	8	A. Uh-huh.
	9	Earplugs on November 29 of 2018.	9	Q. And I think it may be on the report
	10	Have you ever seen the document	10	A. Uh-huh.
	11	before?	11	Q. And do you know why Michael & Associates
	12	A. Yes.	12	wouldn't just go out and buy the earplugs instead of
	13	Q. That's the original report, I think, that	13	having a lawyer involved in litigation send them the
	14	Michael & Associates had written. Are you looking at	14	earplugs for testing?
	15	the 2003 or 2018?	15	MR. GONZALEZ: Objection, form.
	16	A. 2018. And, yes, I have seen this before.	16	THE WITNESS: I do know why. And it's
	17	Q. Tell me when you first saw it.	17	because that's what the ANSI standard says.
	18	A. Yesterday.	18	Q. (BY MR. CICCONE)That you have to get it
	19	Q. Okay. And I don't want to ask you who	19	from a lawyer representing a defendant in litigation?
	20	showed it to you, but I presume that you were given	20	A. No. That the person requesting the test
	21	the document by somebody that's in this room.	21	provides them.
	22	A. Yes.	22	Q. Okay. And the person requesting the test
	23	Q. Okay. Colonel, is it your understanding	23	in this case was the lawyer representing Honeywell in
	24	that in 2018 Michael & Associates was asked to test	24	the litigation that we're here about?
	25	the MAXX Earplugs, which they say are the same as the	25	A. Yes, sir.
ŀ	1	Page 175	4	Page 177
	1	Shooters Earplugs, for potential attenuation against	1	Q. Okay. And
	2	Shooters Earplugs, for potential attenuation against impulsive noises?	2	Q. Okay. And A. (Inaudible).
	2	Shooters Earplugs, for potential attenuation against impulsive noises? A. That's what this document says.	2	Q. Okay. AndA. (Inaudible).THE REPORTER: I'm sorry. I didn't
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	2 3 4 5 6 7 8 9 10	Shooters Earplugs, for potential attenuation against impulsive noises? A. That's what this document says. Q. And to your knowledge, was that the first time that Honeywell had ever asked Michael & Associates to test either the MAXX Earplugs or the Shooters Earplugs for attenuation against impulsive noise? MR. GONZALEZ: Objection, form. THE WITNESS: I don't know. Q. (BY MR. CICCONE)Okay. When you were	2 3 4 5 6 7 8 9 10	Q. Okay. And A. (Inaudible). THE REPORTER: I'm sorry. I didn't hear your answer. THE WITNESS: It appears to be so. THE REPORTER: Thank you. THE WITNESS: Based on the documents. Q. (BY MR. CICCONE)And according to the report, did Michael & Associates use a shock tube to generate the impulsive noise to test the earplugs? A. That's what that ANSI standard uses, so
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	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Shooters Earplugs, for potential attenuation against impulsive noises? A. That's what this document says. Q. And to your knowledge, was that the first time that Honeywell had ever asked Michael & Associates to test either the MAXX Earplugs or the Shooters Earplugs for attenuation against impulsive noise? MR. GONZALEZ: Objection, form. THE WITNESS: I don't know. Q. (BY MR. CICCONE)Okay. When you were Honeywell, do you ever recall Honeywell sending the MAXX Earplugs to Michael & Associates to be tested against the effects of the impulsive noise? A. I don't know, and I wouldn't necessary have known. Q. Now, that report, Colonel, it's addressed to it's addressed to Neil Sambursky. And you know Neil, don't you? A. Yes. Yes. Q. And I don't want to ask you what	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. And A. (Inaudible). THE REPORTER: I'm sorry. I didn't hear your answer. THE WITNESS: It appears to be so. THE REPORTER: Thank you. THE WITNESS: Based on the documents. Q. (BY MR. CICCONE)And according to the report, did Michael & Associates use a shock tube to generate the impulsive noise to test the earplugs? A. That's what that ANSI standard uses, so yes. Q. Do you know what a shock tube is? A. Yes. Q. And is it some sort of a device that will produce an impulsive noise? A. It is. Q. And it's sort of like the device that produces the continuous noise in that it will produce the same noise repetitively for purposes of testing? A. That is its purpose, yes.
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	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Shooters Earplugs, for potential attenuation against impulsive noises? A. That's what this document says. Q. And to your knowledge, was that the first time that Honeywell had ever asked Michael & Associates to test either the MAXX Earplugs or the Shooters Earplugs for attenuation against impulsive noise? MR. GONZALEZ: Objection, form. THE WITNESS: I don't know. Q. (BY MR. CICCONE)Okay. When you were Honeywell, do you ever recall Honeywell sending the MAXX Earplugs to Michael & Associates to be tested against the effects of the impulsive noise? A. I don't know, and I wouldn't necessary have known. Q. Now, that report, Colonel, it's addressed to it's addressed to Neil Sambursky. And you know Neil, don't you? A. Yes. Yes. Q. And I don't want to ask you what conversations, if any, that you've had with Neil, but I do want to ask you whether you have ever been	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. And A. (Inaudible). THE REPORTER: I'm sorry. I didn't hear your answer. THE WITNESS: It appears to be so. THE REPORTER: Thank you. THE WITNESS: Based on the documents. Q. (BY MR. CICCONE)And according to the report, did Michael & Associates use a shock tube to generate the impulsive noise to test the earplugs? A. That's what that ANSI standard uses, so yes. Q. Do you know what a shock tube is? A. Yes. Q. And is it some sort of a device that will produce an impulsive noise? A. It is. Q. And it's sort of like the device that produces the continuous noise in that it will produce the same noise repetitively for purposes of testing? A. That is its purpose, yes. Q. Okay. And did they use human volunteers on this test, Colonel, or did they use a test dummy?
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Shooters Earplugs, for potential attenuation against impulsive noises? A. That's what this document says. Q. And to your knowledge, was that the first time that Honeywell had ever asked Michael & Associates to test either the MAXX Earplugs or the Shooters Earplugs for attenuation against impulsive noise? MR. GONZALEZ: Objection, form. THE WITNESS: I don't know. Q. (BY MR. CICCONE)Okay. When you were Honeywell, do you ever recall Honeywell sending the MAXX Earplugs to Michael & Associates to be tested against the effects of the impulsive noise? A. I don't know, and I wouldn't necessary have known. Q. Now, that report, Colonel, it's addressed to it's addressed to Neil Sambursky. And you know Neil, don't you? A. Yes. Yes. Q. And I don't want to ask you what conversations, if any, that you've had with Neil, but	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Okay. And A. (Inaudible).

178 to 181

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Page 178
                                                                                                             Page 180
                                                                   Q. (BY MR. CICCONE)All right. If the EPA said
   requires for a measuring device, not human subjects.
                                                             1
2
       Q. (BY MR. CICCONE)Would it be potentially
                                                                in its proposed revisions of the regulations that the
3
   dangerous to use human subjects when testing a
                                                             3
                                                                NRR did not represent conditions that somebody could
4
   hearing protective device against impulsive noise?
                                                             4
                                                                expect to experience in field --
5
                                                             5
             MR. GONZALEZ: Objection, form.
                                                                   A. Uh-huh.
6
             THE WITNESS: It could be.
                                                             6
                                                                   Q. -- in other words, they were laboratory
7
       Q. (BY MR. CICCONE) And you talked about the
                                                             7
                                                                conditions or controlled conditions, explain to me
8
   test that the military conducted in 1960s where they
                                                                how testing those hearing protectors in a laboratory
    were exposing soldiers to like explosions to test the
                                                             9
                                                                with a test dummy, how that would replicate or
10
    effectiveness of hearing protection?
                                                            10
                                                                 anticipate the conditions that somebody would
                                                            11
                                                                 experience when exposed to impulsive noise out in the
11
       A. Uh-huh.
12
       Q. And you told us earlier, they don't do that
                                                            12
                                                                 field?
                                                            13
13
    anymore for various reasons, including probably
                                                                          MR. GONZALEZ: Objection, form.
14
                                                            14
    ethical reasons.
                                                                 Sidebar.
15
                                                            15
       A. Human protection.
                                                                          THE WITNESS: When you're trying to do
       Q. Right. And, Colonel, do you know how, or
                                                            16
                                                                 any measures out in the field, there are enumerable
16
17 can you help me even understand how testing a hearing
                                                            17
                                                                 variables that can't be controlled. And so the way
18
    protector in a laboratory on a dummy against
                                                            18
                                                                 to get a standardized measure to be able to then
19
    impulsive noise generated by a machine would
                                                            19
                                                                 apply in a broader way is to do it in a laboratory in
20
    replicate the conditions that a user of those
                                                            20
                                                                 a standardized way. That's what the noise reduction
21
    earplugs would likely experience out in the field
                                                            21
                                                                 rating does for a continuous noise, and that's what
                                                            22
22
    when exposed to, for example, gunfire noise?
                                                                 ANSI S12.42-2010 does for impulse noise.
23
             MR. GONZALEZ: Objection, form.
                                                            23
                                                                    Q. (BY MR. CICCONE)Colonel, if NIOSH and OSHA
24
    Sidebar.
                                                            24
                                                                 would derate an NRR by more than 50 percent according
25
             THE WITNESS: Yeah. I need a more
                                                                 to you with respect to continuous noise, why wouldn't
                                                Page 179
                                                                                                             Page 181
    specific question there. How does it apply to the
                                                                those same organizations derate Kevin Michael's
2
    results of what a human would get, the exposure a
                                                             2
                                                                ratings with respect to exposure, noise protection in
                                                             3
3
   human would get, the risk a human would get?
                                                                his laboratory?
4
       Q. (BY MR. CICCONE)Yes.
                                                             4
                                                                          MR. GONZALEZ: Objection, form.
5
                                                             5
                                                                          THE WITNESS: The physics is different
       A. That is explained in the table that's on
6
   page 1 of this report showing that for a noise
                                                             6
                                                                between continuous noise and impulse noise.
7
   exposure at 130 dB peak, the allowable impulses per
                                                             7
                                                                    Q. (BY MR. CICCONE)So are you suggesting that
8
    day for a human would be greater than 5,000 impulses.
                                                             8
                                                                they wouldn't derate his ratings at all,
9
    For a 150 dB peak, the allowable pulses would be over
                                                             9
                                                                notwithstanding the fact that they were done in a
10
    5,000 pulses. And for 168 dBP, the allowable pulses
                                                            10
                                                                 laboratory under ideal conditions on a test dummy?
                                                            11
11
    per day would be 645 pulses.
                                                                    A. No --
12
        Q. Colonel, if the EPA says in this proposed
                                                            12
                                                                           MR. GONZALEZ: Objection, form.
13
    regulations that the NRR really doesn't represent
                                                            13
                                                                           THE WITNESS: I'm not suggesting that.
14
    conditions that somebody could experience in the
                                                            14
                                                                    Q. (BY MR. CICCONE)Do you think that they
15
    field -- okay -- tell me why that same analysis
                                                            15
                                                                 would derate or would likely derate his findings to
16
    wouldn't apply to testing earplugs in a laboratory
                                                            16
                                                                 some extent or another?
                                                            17
17
    and a test dummy? I know you've explained it to us.
                                                                           MR. GONZALEZ: Objection, form.
18
    But back off a little bit and explain to me why the
                                                            18
                                                                           THE WITNESS: I can't say what they
19
    NRR would be accurate, but the test against impulse
                                                            19
                                                                 would do. The fact that they derate -- that they
20
    noise would be or would not be?
                                                            20
                                                                 recommend derating in a very specific application of
21
                                                            21
              MR. GONZALEZ: Objection to form.
                                                                 the noise reduction hearing now is based on years of
22
    Sidebar.
                                                            22
                                                                 data. And so I would see that data would be applied
```

23

24

25

well.

to any recommendation for derating of impulse as

And, again, this is a relatively new

THE WITNESS: I'm unclear what you're

asking. So ask it again, and then I'll make sure I'm

understanding what you're saying.

23

24

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182 to 185

Page 182 Page 184 test. It's not done on a lot of products. believe that when different labs test a hearing 2 But, yeah, I would see that you need 2 protection product that they can and do have 3 to apply some data to think about whether OSHA would 3 different experience, different results, and make 4 apply derating. different findings? 5 5 And, again, as I said before, derating A. That's correct. 6 is used in a very specific application. And I just 6 Q. And you talked about that earlier; did you 7 want to point out, remember, that an individual user 7 not, that it's been your experience that different 8 could get way more than the NRR or less than that labs can achieve different results depending on 9 NRR. And OSHA in their particular application of the 9 whatever the conditions in the lab were? 10 derating is just saying, for purposes of the finding 10 A. That's correct. There is an 11 the earplug that's adequate for this continuous 11 inter-laboratory study that actually showed some data 12 noise, we recommend derating. 12 that had those labs testing the same hearing 13 Q. (BY MR. CICCONE) Colonel, there's a line 13 protectors. And, remember, humans are involved in 14 that I want you to look at. Let's see. And it's 14 this, and so there's variability with the humans in going to be probably in Kevin's affidavit. And it's 15 15 each different laboratory. And that's where a lot of 16 going to be... 16 the variability comes from. 17 17 A. Can I add a thought about derating? (Off the record discussion) 18 18 Q. Of course. THE REPORTER: 24. 19 19 A. Remember how I talked about how hearing (Exhibit 24 marked) 20 protectors act differently as the noise exposure goes 20 Q. (BY MR. CICCONE) Okay. I want to talk to 21 up, They provide more protection, more attenuation. 21 you about that inter-laboratory study. And, Colonel, 22 If you were going to derate, it would be a fairly 22 are you referring to David Byrne study that was 23 complex derating paradigm because you'd derate it 23 published by NIOSH. And it's -- there's a what 24 more at the lower exposures and less at the higher appears to be a PowerPoint. And then there's the 24 exposures. Do you understand what I'm saying? 25 actual -- the manuscript of the article. And then Page 183 Page 185 1 Q. Yes. it's dated 2017. And it was published in Journal of 2 A. It would be quite complex. 2 Occupational Environmental Hygiene. 3 3 Are you familiar at all with that Q. Okay. Colonel, this was the line that I 4 wanted you to focus on. And it's in Kevin Michael's 4 study? 5 affidavit, where he says on page 2, and I've 5 A. Iam. 6 highlighted it simply to draw your attention to it 6 Q. And here's the -- the PowerPoint, I think, 7 7 and make it easier for you to see. is a little easier to follow. 8 It's on page 2 of his affidavit. And 8 First, do you know David Byrne? 9 I'll just read it out loud. He says, "If the 9 A. I do. 10 Honeywell/Howard Leight MAXX is properly fitted into 10 Q. Okay. And he's somebody that works at 11 the ear canal, it should provide a similar level of 11 NIOSH? 12 impulse insertion loss." 12 A. He is. 13 13 Q. And he's an audiologist? Do you understand what I just read? 14 A. Uh-huh. 14 A. He is. 15 Q. And is the reverse of that also true; that 15 Q. And he's somebody that's published papers? 16 if it's not properly inserted into your ear, it will 16 A. He has. 17 not provide the protection that he indicates that it 17 Q. Okay. And have you spoken at conferences 18 provided in his laboratory test? 18 with him? 19 A. That is -- that is correct. 19 A. Yes. 20 Q. And this is what we've been talking about 20 Q. Is he somebody whose respected in your 21 for a long time that proper fit, proper insertion is 21 field? 22 22 key to the protection that you could expect from any A. Yes. 23 hearing protection device. 23 Q. Okay. And what they did apparently is they

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sent hearing protecting devices to, I think -- I

believe to three laboratories. And then the U.S.

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A. It is.

Q. Colonel, do you believe or have reason to

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Page 186 Page 188 experience." 1 Army independently tested the same hearing protectors 1 2 in its own laboratory. Is that what you understand 2 So in other words, that's the happened? 3 3 laboratory that's actually conducting the report? 4 A. They were one of the laboratories, yes. 4 A. That's correct. 5 5 Q. Okay. And, actually, NIOSH was one of the Q. And then he says also, "A-weighted 6 laboratories, Michael & Associates was another attenuations measured with VeriPRO" -- and you and I 7 have talked about VeriPRO -- "were significantly laboratory, and then our friend at Honeywell, Robert 7 Ghent was the third tester, and he tested the different from the ANSI results in two of the labs." 9 earplugs at Honeywell's safety products laboratory? 9 Are you familiar with that finding? 10 MR. GONZALEZ: Objection, form. 10 A. Yes. 11 11 Sidebar. Q. So that's Honeywell's results were 12 THE WITNESS: That's correct. 12 significantly different from the results from the 13 Q. (BY MR. CICCONE) Colonel, did you have any 13 other laboratories? 14 involvement at all with the study that Byrne did or MR. GONZALEZ: Objection to form. 14 the publication of his paper? 15 THE WITNESS: No. That's -- VeriPRO 15 16 A. No. was a different test than the one you just said our 16 friend, Bob Ghent. He did the ANSI test, but VeriPRO 17 Q. When was the first time that you can 17 remember reading it? 18 is a separate test. 18 19 Q. (BY MR. CICCONE)Okay. I got it. But I 19 A. I think I reviewed it before publication. 20 Q. Did he send it to you and ask you to 20 just read that attenuation measured with VeriPRO were 21 comment on it? 21 significantly different from the ANSI results. 22 22 A. I was part of the peer-review process. What does that -- what's he talking 23 Q. Peer review meaning that people like 23 about? Or do you know? 24 yourself were asked to review and comment on it 24 MR. GONZALEZ: Object to form. before it was published? 25 THE WITNESS: VeriPRO uses a different Page 187 Page 189 1 A. Correct. test procedure. It's not the threshold testing of, I 2 Q. And as part of that peer-review process, just barely heard that tone of the hearing test. did you give a thumbs up, thumbs down, or did you 3 The task that the listener in VeriPRO 4 have any comment at all? 4 has to do is to match the loudness of beeps going 5 5 back and forth between ears. And he's saying that A. I peer review a lot of papers, so I can't 6 tell you exactly what I did with that. But if I had the different methodology found different results 7 7 made any suggestions that were substantive, it would than what the ANSI standard of the threshold base 8 have been addressed and sent back to me for review. 8 does. 9 So, yes, eventually, I gave it a 9 Q. So in other words, different labs can make 10 10 recommendation to be published. different findings? A. And different test procedures can make 11 Q. Okay. And the results that are in this 11 PowerPoint include these: He says, "Significantly 12 12 different findings. different results from the three laboratories Q. Right. Colonel, how many labs are there in 13 13 attributable to the subjects' experience." 14 14 the United States that you know of that are capable 15 Is he talking about the test subjects? of testing hearing protectors? Are there a lot? Are 15 16 A. He is. 16 there a few --17 Q. Okay. What does the test subjects' 17 A. Five. Q. -- how many? 18 experience have to do with it? 18 19 A. The test subjects respond to a hearing 19 A. I think there are five. 20 test, a threshold test, I just barely heard that 20 Q. Okay. And how many of those labs like 21 tone, both with the earplugs in and out. And there's 21 Michael & Associates will test hearing protectors for 22 a bit variability associated with that subject 22 a fee? 23 23 A. He is the only one that I know of currently response. 24 Q. And he also says that, "Significant 24 for the last couple of decades that has done it for a 25

fee.

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different results were attributable to the testers'

		Ι,	2020 190 to 193
1	Page 190	1	Force, did you play any role in the military's
1	Q. Okay. And outside of the United States, do	2	decision to distribute these 3M combat earplugs to
3	you know if there is any laboratory in Canada that	3	service members?
Ι.	will test hearing protectors for a fee?	4	A. No.
4	A. You know, I don't know that. I don't know.		
5	Q. How about in Europe?	5	Q. Were you aware that the U.S. Government
6	A. Yes, there is.	6	sued 3M in federal district court in South Carolina
7	Q. Is there one in Germany?	7	in 2016 over those 3M combat earplugs?
8	A. I don't know. I assume there might be, but	8	A. I am aware
9	I don't know.	9	MR. GONZALEZ: Objection, to form.
10	Q. Do you believe that in testing hearing	10	THE WITNESS: I am aware.
11	protectors that there's a subjective element to the	11	Q. (BY MR. CICCONE) Did you know that the case
12	test?	12	settled?
13	In other words, the tester's intention	13	A. I did
14	may determine the testers' attention? In other	14	Q. Did you know
15	words, that the tester is looking for may determine	15	MR. GONZALEZ: Objection, form.
16	what the tester finds?	16	THE WITNESS: I did know the case
17	MR. GONZALEZ: Objection, form.	17	settled, yes.
18	THE WITNESS: I think what you're	18	Q. (BY MR. CICCONE) Do you know anything about
19	asking is: Can the experimenter influence the	19	the allegations that the government makes in that in
20	results based on a bias they have?	20	Qui tam lawsuit against 3M in South Carolina?
21	Q. (BY MR. CICCONE)Yes.	21	A. I don't understand that term, so I
22	A. And I believe that the ANSI standard is	22	Q. Well, Qui tam means that the federal
23	written to control that as much as possible. And so	23	government sued to recover damages that the federal
24	that's my answer.	24	government or member of the military, perhaps,
25	 Q. Do you think the bias is still there 	25	experienced. Were you familiar at all with any of
	Page 191		Page 193
1	Page 191 notwithstanding the ANSI standard?	1	Page 193 the allegations that were made in that lawsuit?
1 2		1 2	
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1	Page 194 in front of me.	1	Page 196 about hearing conservation.
2	Q. Subpoenaed to do what?	2	Q. Did you know that Aero was falsifying its
3	A. To provide documents during a time that I	3	test records
4	did some consulting for Aero.	4	A. No.
5	Q. And Aero is the outfit that marketed those	5	MR. GONZALEZ: Objection, form.
6	earplugs before 3M bought Aero?	6	Let him finish the question before you
7	A. That's correct.	7	answer.
8	Q. What consulting did you do for Aero during	8	THE WITNESS: Answer? Yeah.
9	the time that Aero was selling those earplugs to the	9	MR. GONZALEZ: And, again, I'm going
10	military?	10	to be giving an objection.
11	A. I taught hearing conservation seminars to	11	THE WITNESS: The way you ask it, did
12	motivate people to protect their hearing and to share	12	I know they were falsifying? I don't know if they
13	information about hearing testing and hearing	13	were falsifying.
14	regulations. Not hearing protection testing,	14	I didn't do any product work with
15	people's hearing testing.	15	Aero.
16	Q. Have you been subpoenaed to testify at a	16	Q. (BY MR. CICCONE)Do you know or have reason
17	deposition or a hearing, or do you know?	17	to believe that Honeywell has been threatened with
18	A. I have not.	18	being brought into that class action suit in
19	Q. Do you know where you're supposed to appear	19	connection with those 3M combat earplugs?
20	to comply with the subpoena?	20	MR. GONZALEZ: Objection, form.
21	A. I was supposed to provide documents.	21	THE WITNESS: I don't know anything
22	Q. And do you have the documents that you were	22	about a Honey
23	requested to produce via the subpoena?	23	Q. (BY MR. CICCONE) Do you know I'm sorry.
24	MR. GONZALEZ: Objection, form.	24	A relationship to that.
25	THE WITNESS: I provided them to my	25	THE REPORTER: You don't know anything
- 1			
	Dogo 10E		Daga 107
1	Page 195 attorney.	1	Page 197
1 2		1 2	
	attorney.		about
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Page 198
                                                                                                             Page 200
    sports?
                                                                adequate to block my ear canals. I have fairly large
1
2
             MR. GONZALEZ: Objection, form.
                                                             2
                                                                ear canals.
                                                             3
3
             THE WITNESS: I can't go back into the
                                                                         But when I really get a good plug up
4
   minds of the marketers who are writing this. But the
                                                             4
                                                                my ear canals, I can tell that the sound around me
5
                                                             5
                                                                goes quiet. That's step two in getting a good fit.
    fact of the matter is if you want the maximum amount
6
   of protection from a hearing protector, a well-fit
                                                             6
                                                                   Q. (BY MR. CICCONE) But the question was,
7
    foam plug is the ideal solution for that.
                                                             7
                                                                Colonel: Would you recommend that somebody with no
8
       Q. Right. And do you agree with me that those
                                                                experience wearing the plugs try to fit the plugs
                                                             9
9
    earplugs, those Shooters Earplugs, they could be
                                                                himself or herself with no instruction from anybody
10
    ideal for shooting sports, if; one, the earplugs fit
                                                            10
                                                                 like you or some other professional and then go onto
11
    you correctly?
                                                            11
                                                                 a shooting range, would you recommend that?
12
              MR. GONZALEZ: Objection, form.
                                                            12
                                                                          MR. GONZALEZ: Objection, form.
                                                            13
13
              THE WITNESS: That's correct.
                                                                          THE WITNESS: I think in most cases
14
       Q. (BY MR. CICCONE)And, second, do you agree
                                                            14
                                                                 that's highly adequate. I don't need to teach
15
    with me that they could be ideal for shooting sports
                                                            15
                                                                 everybody how to fit earplugs.
                                                            16
16
    if you wear them correctly?
                                                                    Q. (BY MR. CICCONE)But we talked earlier about
17
                                                            17
              MR. GONZALEZ: Object to form.
                                                                 the situation that you've described in Chapter 14 of
18
              THE WITNESS: And I would like to add
                                                            18
                                                                 the Hearing Conservation Manual where you told me
                                                            19
                                                                 that you thought it was potentially dangerous for a
19
    to that that this isn't a dichotomous answer. So,
20
    yes, a well-fit earplug provides the most amount of
                                                            20
                                                                 supervisor to hand a worker earplugs and just tell
21
    attenuation you can get from an earplug, but there's
                                                            21
                                                                 the worker, here, use these around loud noises.
22
    evidence that shows that some degradation of the fit
                                                            22
                                                                 Stick these in your ears.
23
    still provides pretty good attenuation. Where with
                                                            23
                                                                          MR. GONZALEZ: Objection, form.
24
                                                            24
                                                                          THE WITNESS: So that takes these
    other kinds of earplugs, it's closer to a dichotomous
25
    thing. So when you break the seal, you break it a
                                                            25
                                                                 instructions and any information about that the sound
                                                Page 199
                                                                                                             Page 201
1
   lot.
                                                                 should be diminished.
2
            With a foam earplug, that's not
                                                             2
                                                                          It's just -- you know, the point I was
   necessarily the case. You may still be getting some
                                                             3
                                                                making there is handing out like candy and giving no
   protection, although, you know, likely not the amount
4
                                                             4
                                                                information. This package gives information.
5
   you'd get with the proper fit.
                                                             5
                                                                           MR. GONZALEZ: For the record, she's
6
      Q. (BY MR. CICCONE)Colonel, would you
                                                             6
                                                                referencing Exhibit -- the exemplar, which is what
7
   recommend that somebody who has no experience wearing
                                                             7
                                                                 Exhibit 9 is with the instructions.
8
   earplugs try to fit them with no instruction from
                                                             8
                                                                    Q. (BY MR. CICCONE) Colonel, we've talked
9
   anybody and then go onto a shooting range?
                                                             9
                                                                about that the Shooters Earplugs could be ideal for
10
             MR. GONZALEZ: Objection, form.
                                                            10
                                                                 shooting sports if they fit you, if you wear them
11
             THE WITNESS: I would recommend they
                                                            11
                                                                 correctly. And is there also a third element, they
12
    read the directions.
                                                            12
                                                                 could be ideal for shooting sports if you wear them
13
       Q. (BY MR. CICCONE)Now, are you talking about
                                                            13
                                                                 in connection with an over-the-ear muff?
14
    the little side panel of the information?
                                                            14
                                                                           MR. GONZALEZ: Objection, form.
15
       A. That's good information, yes.
                                                            15
                                                                           THE WITNESS: I wouldn't say it that
16
       Q. Okay. Do you think it's good enough?
                                                            16
                                                                 way. I think they would be ideal whether you wore
17
             MR. GONZALEZ: Objection, form.
                                                            17
                                                                 the earmuff or not.
18
             THE WITNESS: I think that is step
                                                            18
                                                                     Q. (BY MR. CICCONE)But when you go onto a
19
    one. Step two is for them to do that reality check
                                                            19
                                                                 shooting range, you wear the MAXX Earplugs in
20
    of, did sound levels go down when I put these
                                                            20
                                                                 conjunction with an over-the-ear muff; do you not?
21
    earplugs in?
                                                            21
                                                                           MR. GONZALEZ: Object to form.
22
             And, again, that basic skill that we
                                                            22
                                                                           THE WITNESS: I do. And the reason I
23
    talked about earlier when I put my little finger in
                                                            23
                                                                 wear the over-the-ear muff is twofold; one, because
24
    my ears like this, it doesn't diminish the sound
                                                            24
                                                                 the greatest amount of attenuation makes me more
```

25

accurate. I don't flinch.

around me very much because my little finger isn't

202 to 205

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	Page 202		Page 204
1	And, secondly, the earmuff that I use	1	the official supplier, whatever that means.
2	has an amplifier on it so that I can hear what's	2	A. Yes.
3	going on around me.	3	Q. When you were still with Honeywell,
4	Q. (BY MR. CICCONE)Colonel, if the Shooters	4	Colonel, do you believe that Honeywell was doing
5	Earplugs don't fit you, do you think they're ideal	5	everything that it could do to minimize the potential
6	for shooting sports?	6	risk to customers that improperly fitted earplugs
7	MR. GONZALEZ: Objection, form.	7	could potentially expose them to dangerously high
8	THE WITNESS: No. If something	8	noise levels?
9	doesn't fit you, it's not going to be ideal. If you	9	MR. GONZALEZ: Objection, form.
10	gave somebody clown shoes to walk around, that would	10	Sidebar.
11	not be the ideal thing to walk around in. So no.	11	THE WITNESS: I believe that Honeywell
12	Q. (BY MR. CICCONE)Colonel, if you don't wear	12	was doing similar levels to what other hearing
13	the Shooters Earplugs correctly, do you believe that	13	protection companies were doing.
14	they're ideal for shooting sports?	14	Q. (BY MR. CICCONE) Do you think that they
15	MR. GONZALEZ: Objection to form	15	could have done more than what they did?
16	form.	16	MR. GONZALEZ: Objection, form.
17	THE WITNESS: They are likely your	17	THE WITNESS: Yes.
18	best protection. If you're not going to wear a	18	Q. (BY MR. CICCONE) Those are all my
19	hearing protector right, the foam plug is probably	19	questions. I appreciate your time.
20	going to give you at least a little of something that	20	MR. GONZALEZ: We're going to go off
21	might protect you enough where other hearing	21	the record.
22	protectors may not.	22	THE VIDEOGRAPHER: The time now is
23	Q. (BY MR. CICCONE)They might protect you	23	6:19 p.m. We are off the record.
24	enough. In other words, there's a potential risk	24	(Recess from to 6:19 p.m to 6:34 p.m.)
25	that they will not?	25	(Exhibit 26 marked)
1	Page 203 A. It depends	1	Page 205 MR. GONZALEZ: Back on the record.
2	MR. GONZALEZ: Objection, form.	2	What we're going to do, we're making references to
3	THE WITNESS: It depends on the fit.	3	the references that were made over to the Hearing
4	It depends on the weapon. It depends on how many	4	Conservation Manual, pages 114 and 121, have been
5	shots you're firing.	5	marked, along with the cover of the Hearing
6	Q. (BY MR. CICCONE)And, Colonel, if you don't	6	Conservation Manual as Exhibit 26. I've given the
7	wear the Shooters Earplugs in conjunction with	7	manual back over plaintiff's counsel.
8	another form of hearing protection, for example, the	8	THE REPORTER: Okay.
9	over-the-ear muffs, do you believe that they're still	9	(Exhibit 27 marked)
10	ideal for shooting sports?	10	MR. GONZALEZ: And then Exhibit 27 is
11	MR. GONZALEZ: Objection, form.	11	going to be a list of the exhibits that not
12	THE WITNESS: The way you stated that	12	necessarily were introduced. I think 14
13	question, yes.	13	Mr. Ciccone, 14? 14 was not
14	Q. (BY MR. CICCONE)Colonel, when you were	14	
15	still with Honeywell, you told us that Honeywell	15	MR. CICCONE: 14 was not played. It's on the flash drive that you have and that you have.
16	would not sponsor educational events; for example,	16	MR. GONZALEZ: Okay. Well, the other
17	with the hearing conservation association. Do you		•
18	remember telling me that?	17 18	exhibits, do you know offhand if they were introduced?
	A. I do.		
19		19	MR. CICCONE: Yes. Well, they are.
20	Q. But they did sponsor or contribute to the	20	They were all numbered.
21	USA Shooting Team. Do you remember telling me that?	21	MR. GONZALEZ: All right. To the
22	MR. GONZALEZ: Objection, form.	22	extent they've all been numbered, Exhibit 27 has a
23	THE WITNESS: I don't know that they	23	list, with the exception of what's No. 14 on there
24	sponsored them.	24	that was not played. All the other ones have been

25 admitted into this case.

25

Q. (BY MR. CICCONE)Well, it says that they're

	Page 206		Page 208
1	We can go back on the video record	1	CHANGES AND SIGNATURE
2	now.	2	WITNESS: THERESA SCHULTZ DEPO DATE: 02/27/2020
3	(Video record resumes at 6:37 p.m.)	3	PAGE LINE CHANGE REASON
4	THE VIDEOGRAPHER: The time now is	4	
5	6:37 p.m. We are back on the record.	5	
6	EXAMINATION	6	
7	Q. (BY MR. GONZALEZ) Dr. Schultz, my name is	7	
8	Javier Gonzalez. You understand I represent	8	
9	Honeywell Safety Products in this lawsuit that	9	
10	Roberto Flores has filed against my client?	10	
11		11	
1	A. Yes, sir.	12	
12	MR. GONZALEZ: We're going to reserve	13	
13	our questions until the time of trial at this time.	14	
14	Thank you, Dr. Schultz, on behalf of	15	
15	my client and myself.	16	
16	We're done.	17	
17	EXAMINATION	18	
18	Q. (BY MR. CICCONE) Colonel, I forgot to ask	19	
19	you, are you being paid for your time to appear here?	20	
20	MR. GONZALEZ: Object to form.	21	
21	THE WITNESS: No, sir.	22	
22	Q. (BY MR. CICCONE) Doing this voluntarily?	23	
23	A. Yes, sir.		
24	MR. CICCONE: Thank you, ma'am.	24	THERESA SCHULTZ
25	Those are all my questions.	25	
1	Page 207 MR. GONZALEZ: We'll reserve all of	1	Page 209
2	our questions for the time of trial. Thank you.	2	
3	THE VIDEOGRAPHER: The time now is	3	I, THERESA SCHULTZ, solemnly swear or
4	6:38 p.m. We are off the record.	4	affirm under the pains and penalties of perjury that
5	•	5	the foregoing pages contain a true and correct
	(Deposition concluded at 6:38 p.m.)	6	transcript of the testimony given by me at the time
6		7	and place stated, with the corrections, if any, and
7		8	the reasons therefor noted on the foregoing
8		9	correction page(s).
9		10	
10		11	
11		12	
12		13	
13			
14		14	THERESA SCHULTZ
15		15	
16		16	
17		17	
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21		21	
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23		23	
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25		25	

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1	REPORTER'S CERTIFICATE	
2	I, KARA Y. DICKINSON, Shorthand Reporter	
3	certify:	
4	That the foregoing proceedings were taken before	
5	me at the time and place therein set forth, at which	
6	time the witness was put under oath by me;	
7	That the testimony of the witness, the questions	
8	propounded, and all objections and statements made at	
9	the time of the examination were recorded	
10	stenographically by me and were thereafter	
11	transcribed;	
12	That a review of the transcript by the deponent	
13	was requested;	
14	That the foregoing is a true and correct	
15	transcript of my shorthand notes so taken.	
16	I further certify that I am not a relative or	
17	employee of any attorney of the parties, nor	
18	financially interested in the action.	
19	I declare under penalty of perjury under the	
20	Federal laws that the foregoing is true and correct.	
21	Dated this 21st day of April 2020:	
22	nau y bulusm	
	Kara Y. Divkinson	
23	Notary No. 564162-9	
	Firm Registration No. 341	
24	U.S. Legal Support, Inc.	
	4801 NW Loop 410, Suite 375	
25	San Antonio, Texas 78229	
	(210)734-7127	
	(===,,	
		J

March 04, 2020

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